Amateur Radio Station LOG

AMERICAN RADIO RELAY LEAGUE

NEWINGTON, CONNECTICUT, U.S.A.

CALL SIGN

ZLØAAA

Book No. 1

From 11/18/90

To 26/02/91

$3.50 US

ROOM FOR 200 MORE ENTRIES!

NOTE: THIS LOG BOOK PICKED FOR ORIGINATING QSLS - APR 12, 1991

OPTIONAL

ATTACH PHOTOCOPY OF YOUR LICENSE HERE.

IMPORTANT — FILL THIS OUT

CALL SIGN ZLØAAA

Station Location HOUTHORA, NORTH ISLAND, NEW ZEALAND
(Street Address)

(City/Town)

(State/Province) ZIP/PC (Country)

Time entries are in (check one): ☒ Coordinated Universal Time (UTC) NOV. 18, 1990 TO MAR. 26, 1991

☐ _____ Time

Operator's Signature Bob Cooper

MODE

The FCC has simplified its identification of the types of emissions used in the Amateur Service with its rewrite of Part 97, effective September 1, 1989.

CW	Telegraphy	PHONE	Speech and other sound
DATA	Telemetry, telecommand and computer communications (includes Packet)	PULSE	Modulated main carrier
		RTTY	Direct-printing telegraphy (includes AMTOR)
IMAGE	Facsimile and television	SS	Spread spectrum
MCW	Tone modulated telegraphy	TEST	Emissions containing no information.

For additional information on emission types refer to *The FCC Rulebook*, 8th Edition or later.

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ABOUT THIS LOG

THE ARRL UNIVERSAL LOG

Many radio amateurs keep a detailed log of their on-the-air activities. Such facilitates confirmation of QSL requests, investigation of potential TV/RFI complaints, and detection of unauthorized use of your call sign. A neat accurate log is a matter of personal pride with the active radio amateur.

The ARRL Universal Log suits every type of amateur operation: DXing, contests, ragchews. The left-hand segment of the log sheet contains generally **fixed** information which is not subject to change between contacts. This includes DATE, FREQ, MODE, and POWER. Consult the inside cover for mode designation. The power should be indicated in watts output.

The right-hand segment of the log sheet contains the **variable** items that will change from contact to contact. This includes TIME (UTC recommended and indicated on inside cover), call sign of the STATION WORKED, and RST REPORT SENT and RECEIVED. The TIME OFF column may also be used to log EXCHANGE information for state QSO Parties and contests or to log ITU/CQ Zone or grid locator. This column is located adjacent to the REPORT RECEIVED to facilitate this multi-purpose use. Otherwise, the station operator may use this column to log TIME OFF for ragchews and casual contacts. The COMMENTS column may be used for QTH, NAME, and QSL information, or any other information that the operator wishes to note. The COMMENTS column should also be used to indicate any variation from the standard information required on the inside cover. A checkmark will indicate QSL sent and received.

Be sure to fill out the information on the inside cover.

LOG REQUIREMENTS

There is no longer any requirement that radio amateurs keep a record of their operations in a station logbook. On an individual basis the FCC may require a record of station operations to assure compliance with its rules. Information pertaining to special operations such as repeater, auxiliary and remote control still have to be kept as station records. Consult ARRL's *FCC Rule Book* for details.

We are still encouraged to keep records of our operations. This is especially true of experiments and activities that may contribute to the state-of-the-art. There are practical as well as sentimental reasons for keeping a log. The following information may be entered:

1) The call sign of the station, the signature of the station licensee, or a photocopy of the station license.

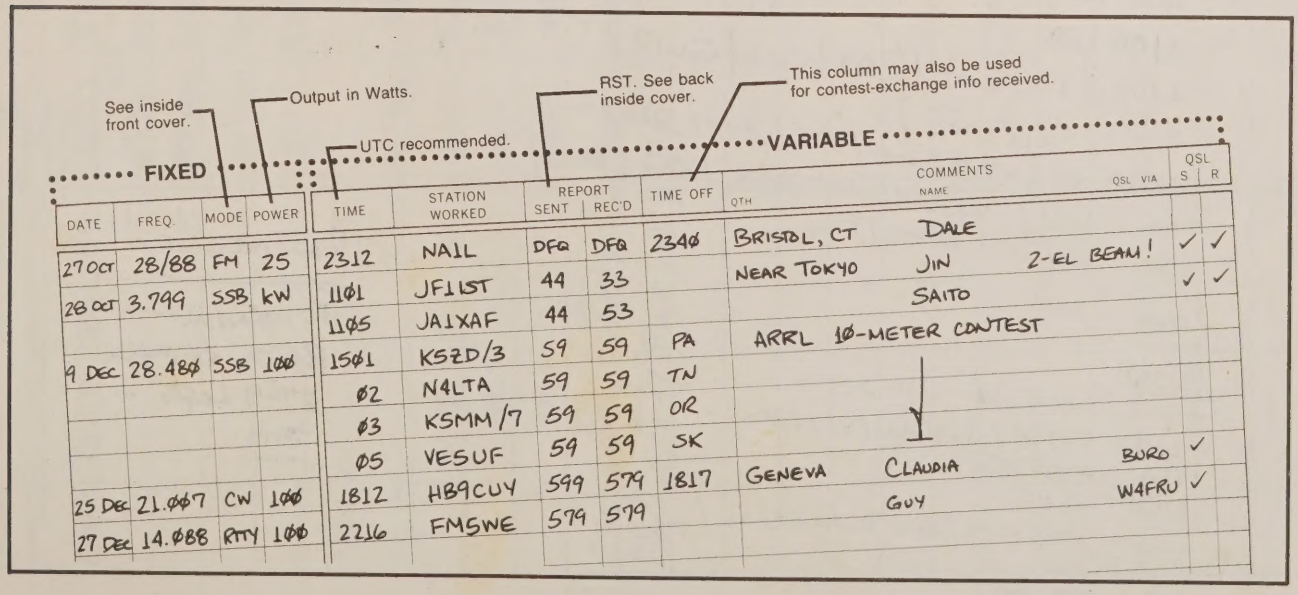
2) The locations and dates upon which fixed operation of the station was initiated and terminated. If applicable, the location and dates upon which portable operation was initiated and terminated at each location.

3) The date and time periods the control operator for the station was other than the station licensee, and the signature and primary station call sign of that control operator.

4) A notation of third-party traffic sent or received including names of all third parties, and a brief description of the traffic content.

AVAILABILITY OF LICENSE

You must have your original license (or a photocopy) with you when you are operating mobile, portable, or guest-operating at another station. At your own station location you may post your license (or a photocopy) near the operating position in lieu of having it on your person. A convenient place is provided on the inside cover of this logbook for attaching a photocopy of your license. If you are guest-operating, you must have available for inspection the station license (or a photocopy) for that station, in addition to your own operator's license.



50.760
45.260

5 ~~5~~ CW STATION NOTES:

49.685
45.260
4.425

5.500
4.425

787.2 771.1 693.4
779.0 779.0 685.4
6.2 8.1

.704 (AM)
1926LT - 49.685 — 50.172.9 — 8 KC
38.125 - FM AΦ
H3 Spacings

687.5 CW

49.875.0 - FM - Telepitme

Clears
105
129
145.7

SAT	1300/1500 - USA, CARIB, PACIFIC
	1900/2200(+) - PACIFIC, ASIA, EUROPE
SUN	0800/1900 - USA/CARIB/PACIFIC
	1900/2200+ - PACIFIC, ASIA, EUROPE
MON	0800/1300 - USA/CARIB/PACIFIC

DMZ

(TUTUKAKA)
11/19 - Sp at 2015 LT (10)
DK at 2026
SM AT 2100 (PIC JA 59+)
UA3 / F8 /
1HA - 2113 /
I - 2145 /
2220 - F /
2225 - OH

BT / 6 NAM
OH5NSH
~~UZ0~~ UZ0 / ~~UW~~ L
DJ1NY
UB4WWT

11/20 - open 0910 (+) WK YE, W - SPOTTY - NORTH
- JA - 1115
- - 1630 - HL / PLENTY OF HAM SIGS
28.269.5 - ~~TT~~ 6 NAM BCN
- 1930 / JA (TO UAG) / UZ2 /
- 2000 / UA4 / SP9 / HA1 / DL5 /
- 2035 / OH / (MULTIPLE PATH)
- 2~~100~~ / EA (" ")
- 2200 / I6 / DJ5 / FD1 / YU2 / GW4 / (" ")
- 2215 OZ1 / DJ5 /
- 2230 - HL / UZ0 / UW9 / F9 / H44 / JH0
- 2300 - UZ0 / F6 / RA4 / DL6 / JA / OE / IK5 / SM6 /
2315 - DL / IK8 / KG6 / FG /

↓ MULTIPLE PATH
~~TATUAMAU~~

LaJARCO's
POUKAWA —
RLY 60 MILE
ONLY LCFS -
~~6AM~~

11/21 - 0900 - W2 /

~~TAPIA~~
-1842 - VK5 WA - 28.258.7
-2031 - IK / JA / UI9 / DL3 / YI2 / TA5 /
-2120 - UW9 / DF5 /
-2150 - DL3 /
2210 - HV4 MULTI PATH - DL / UZ0 / OZ /
2236 - IK
2345 - DF / UB3 /
VK6XC

I2440 -440.3

DATE	FREQ.	MODE	POWER	TIME (NZT)	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/18/90	28.600	SSB	80	0033 (1333)	(G?) ZK1TB	44	43		LEW - RAROTONGA, COOK ISLANDS	X	
		"	80	0939 GMT	OH5NSH	59	58		- JUKKA - FINLAND - UA3DMZ		
		"	80	1002	UZ0WWL	59	59		GEORGE - SAYAN - SIBERIA IT, IBG		
		"	80	1009	DJ1NY	59	59		RUDY - SW GERMANY FRANKENTHAL (JG2BRI - 885)		
			80	1023	UB4WWT	57	55		ROMAN - W. UKRAINE (LVEIV) 80C / (IT5BWG) FG GGB		
11/24/90		"	80								
09/12/90			(10 MTR Beam TEST) (50 WATTS)								
	28.482.6	SSB	80	0804	JH5OWN	59 HO	59+		ETHMI - 50W/4el BOT 17° HB9AOF 482.6		
	482.6	"	"	0812	JK1NLS	57	57		YOKOHAMA - KIM	A	X
	454.9	"	"	0818	OH4SCL	58	56		FINLAND - ROLF SANTA CLAUS LAND OH4SCL - ROLF		
[2300 / DL6IG 57 / EA8JA 55 / OH2TEN 53 / VK2RS4 32 / DF0AAB 53 /									HL45F		
ANT N S34 / VK2RS4 22 / JE6WA / W7 / II / ← V4 STABLE / W8 / W6 / WØ / K5CM / F6CTT 0600 501.7 / EA1YA 504.6 / CO4 /											

Beam UP (10) (6)

(10)	(6)
28.300 50/8+	50.000 - 20/2
.400 50/8	.100 24/1+
.500 50/10	.200 24/1
.600 50/12	.300 25/1-
.700 50/13	
.800 50/15	

BCNS - PS1ON

11/22 ~~ETA 1730~~ Tripa

1030 - W4/VE7/VK4/
1600 - VK4
1850 - JA, ~~FA~~
1913 - PY2AMI BCN
OH2TEN BCN
1928 - LU1FG B, VK4RTL B
1935 - OH, JA
1948 - UA9, OH7, RA3, JD1, DK, I4, UA0,
2005 - VK5WI B / PY2AMI STN /
2137 - ~~DFB~~ WS / JA, KH6,

2224 - RA3, PY2AMI,
2237 - K2RSY 2GO.8
2311 - RBS, DF, LU1FG, PY2AMI
HG5, ~~I5~~
2345 - EA7 / LU1FG, PY2AMI, K2RSY,
0010 - RUSSIANS - 622.4

11/23

W7, 9, VE3, W0, W5, W4, W6, W1
0910 PY2AMI, LU1FG,
1745 - VK4RTL (NO TIME)

11/24

0630 - VK4RTL, K2RSY,
0845 - W4, 6
EA8/KH6
KW7Y - 2000 GMT 23
VE3

28890
2
57780

0920 - 35.8 MUF Haiti - 2000 GMT 23
2015 JG / F0 / UA0 / OH3 / HL / UV6 / ~~EL~~ OK4 FD1 / CE4LFO
VK4RTL / PY2AMI - 0700 GMT
559 339 - 0800 GMT
2048 - JR5 Multiple Path - DF0AAB - OH2TEN UL8 LW2
VK4RTL / PY2AMI
22
2110 - RW3 / UL8LWZ / CT3 / - 0800 GMT
2126 - VK4RKL 559 / PY2AMI / SM6 /

2200 - BCNS ON 14 - NO SSB SIGS
2245 - 52.425 + ~~55.260~~ / DK2 / FD1 / EA7 / UV3 / EA3 JA || 29.142.8 R3 0349.8 CRTM)
513
602
691
729
864
956
23:27 - Fan 28.84u - Chinese - Sub Harmonic - HV 4251 - 1000 GMT
2330 - P[illegible] + Russians

PY2AMI
GG67IF
TS 6N4ANU
G
2
0522E
OH2TN
PY2AMI
1HG
2TEN
LTEN
VK4RT
JH1 / JD1
487.6
LA
VK5WI
YA1FUW
JT1BG
473

WA4BJS/28263
W 8
(K2RSY ~~28.260.8~~)
PY2AMI 28.224.6
OH2TEN 28.252.2
LU1FG 28.254.5
VK4RTL 28.269.6
KW7Y 28.224.8
DF0AAB 28.277.9
DL0IGI 28.202.7 SSB FSK
EA3JA 28.248.8 FSK
BARCELONA

V1

K2RSY
IN
IC
KW7Y
~~IC~~ 277.9
B
PU
(2045)

INTN
BIG
LOS
JA ~~OH~~
OSA
2 AKEL2
248.8 ? 2130
2L
ANELON

PU E
DL0IGI
REELO A
EA3 ABA
CELO
IA BARE
EA3JA BARCELONA
28.282.4 FSK -
23:15
R3

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH	COMMENTS NAME	COMMENTS QSL VIA	QSL S	QSL R
8/12/80	28.	SSB	80	0053	KG7Z	59	59		Mich	001			
				0055	VE3XO	59	59		ONT	002			
				0059	K5ZCJ	59	59		OKLA	003			
					~~KAVSO~~				~~CAL~~	~~004~~			
				0055	KBØC	59	59		IND	004			
					WA5ØCP	59	59		TX	005 / ~~008~~			
				0055	WAØRTO	59	59		NM	006			
					VE3IAB	59	59		Belize	007 /005		X	
				0057	W4CVT	59	59		OKLA	008			
(A)					KW6W	59	59			009 -/024			
				0058	N5ØGX	59	59		TX	010			
					WJ8R	59	59		MI	011			
				0059	AA8U	59	59		MI	012			
				0059	W8TVØ	59	59		MI	013			
				0100	K59Ø	59	59		WISC	014			
				04	W5FOZ	59	59		TX	015			
					KØHOF	59	59		MO	016			
					KD9RG	59	59		IND	017			
				0102	W9YSX	59	59		IND	018			
				"	VE6VVS	55	55		ACB	019			
				"	KR9U	59	59		IND	020			
				"	N9RJ	59	59		IND	021			
				"	ACØW	59	59		MINN	022			
				"	N8CXX	59	59		MICH	023			
				0104	KZ9O	59	59		WISC	024			

UNSIGED Rel.

WONCD NOT BE NORMALLY @ 1415 Z >

GW - 1ST OF DEC. / HOSPITAL

11/25 Houston

0715 - KW7Y / PY2AMI 1800 24
- W6/W8/W7/VE7/W1/
(H) (MUF 35.5)

0100 - VK5WI 57 / VK4RSJ 22 / VK8VF 22
JA/

0400 - VK4RSJ 33 / VK8VF 53 / VK5WI 55-53+
- JA/

0600 - VK5WI 57 / VK8VF 53
- VK5/JA/HL/KH6 WK /

0800 - LU1FG 53 / PY2AMI 53 / OH2TEN 32 / VK5WI 59
JA/

0800 - VK5W 59 / LU1FG 55 / OH2TEN 53 / PY2AMI 56
JA/HI

11/26

0355 - ASIA SIGS - 485.9
JA(CW)/27.385 RTTY/CB - 27.144 (JA?)

1530 25 0437 - VK 11 RS4 /

0600 - " 11 SS / K5 CA / W6 CA / CN1 CE3 / WA2 / W4 KY / XE3 / TRG-CRG? /
55

1800 25 0648 - WA4DJS / AA1 /

0710 - " SOME / W5 / CN3 /

2000 24 925 - W6 / LU1FG / PY2AMI / KW7Y / VK4RTL / W7 WN / NH6 / N4 /

1035 - F4 / GW / JA / XE / W5 / K6 / VE3

2300 25 1207 - KW7Y

0330 26 1630 - VK4RTL / KH6 /

0330 26 1730 - TI6? 270.4 / VK4RTL /

0330 26 1826 - JJ7 / VK2RS4 57 / PY2AMI / ~~HW9~~

1850 - UW9 / 55 / VK2RS4 59 / VK5WI / 55 / LU1UG / 55 / ZL2MHF 57 / 3D2PR

0630 - 1935 - VK2RS4 / VK5WI / LU1UG / ZL2MHF
50.750 SSB/SSB / 3D2 55.260 WK / 55.240 QSB E3 /

2000 - 55.250 Beat - 2 SIGS 55.260 - E3 59 50.760 - TN1
2055 - 45.250 +20/260 +5 50.260 +.250 2+ SIGS 750 - N2
59 PK TN1 - 740.760
2105 - 50.041.4 ZL2MHF N2 - 750

END OF

3

BTiGNaNu
YNU

VF

[BTiGNaNuM
27?.7-?]

Houston - Guam Whip -
58.250 - 58

K8VF

7K/VK8

FLORIDA -
3

Yi LS VK6ZDT
De NG? YG SK

TS OMNIC
KW7Y

K5Z 1 WATT
ReZ alt Be
867 ; Res ZL2MHF

(6)
28.267.8 VK8VF
28.261.3 VK2RS4
28.297.5 WA4DJS
28.255.3 LU1UG
28.229.5 ZL2MHF

253.465 (X6)

(X7) 231.080 (X6)

202.4?? Citizen

C#. C-28 // 635.75 A

22ND HARMONIC = 635.470

= 28.247227 MHz

0838.0

57.770 (X2)/86.655 (X3)/173.310 (X6)/202.4??

A) Possible Taiwan - Witness FM stations 82.0
B) " Japan - TN1 76 TO 88 - 1ST VK Point
C) SRI LANKA HEARD IN 87.5

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/26	50.110	SSB	80	2114	ZL3TIC	57	54		RE66 - MIKE		
"	50.110	SSB	80	2116	ZL4TBN	54	54		RE54 - Dave DUNEDIN CITY		
11/12	10 dep. - LU SIGS,			+ WK 4.514 ϕ + HK - 0845 LT /					6 - 49.845 0200 Z/N		
	1050 - MUF ≃			39.950	35.22 ⇒ 57 /				CW/W 43.243 2030Z		
	1900 PY2AMI, VK2RSY, KH6,			— dow					CW/QSB - 36.000 "		
	2047 - VK2RSY, 57			— 0850							
12/12	0040 / 28.885 FM - Chinese (TV?) PSM / 2 OR MORE SIGS AUDIO			—	(57. 770 X2 / 86.655 X3 / NO APPARENT OFFSET)						
	0106 - HC / ZL2MHF? / EA3JA / VK2RSY /			— 1200 - 11				1300 11			
	0215 - HR1KRS / + Chinese TV / VK4RTL 599 / VK2RSY 33 / EA3JA 22 MP / ZL2MHF? / 4X6 / JY5FA / 4XGEA / MM1 324.7 N8M4C / MM1 INDIAN OCEAN /										
	0242 - VU2GI - 28.343 9 ON 2 HOS										
	0304 - HV1 AM ORIENTAL SIGS - 0500, 0363 ESE CTO 9+20 / EA3JA 22 / VK2RSY 22 / VK4RTL 559 /							1600 11			
	0925 - VK4RTL 594 / VK2RSY 33 / WA4OJS / ZL2MHF 11 / KW7Y / MUF 36 /							2000 11			
	1139 - KW7Y / PY2AMI / VK2RSY / W3VD /			— 2330 11					5		
12	12M - MUF 36 /			— 2300 - 11							
Nov 30 12	1711 - PY2AMI / VK6RWA			019 — 060 (12)							
	2034 - EA3JA 33 / DLØ IMI 53 M / OHØTEN 33 / VK2RSY 11 / OKØEG 93 / HK5TEN 33 / VK5WI 22 /								VK5WI - 259.2		
13/12	0045 - EA3JA 53 / DLØIGI 53 / VK5WI 22 / VK2RSY 33 / [NO SIGS] / VK6								28.263.9 VK6RWA		
12NW 12	0945 - VK4RTL 599 / VK2RSY 22 / ZL2M 11 / PY2AMI 33 + KW7Y 33 /								28.282.9 - OKØEG (10 WATTS)		
21NW 12	1040 - MUF 37.660 /								28.289.8 - HK5TEN		
060W 13	1902 - PY2AMI 33 / VK2RSY 44 /								5 WATTS		
	2245 - NO SIGS										
14/12	- AM - VM Pom Sigs 10 - 1130								CONTE WA -		
	- DW - TV 163 - 54 M2 - 49.701 / .709 ⇒ / 50.080								OKØEG ES CONTEN WATTS		
	- 35.716 (FM) CH PCM / VK2RSY 11			— 0600 14					ACQDTN WATTS		
KUWAIT	1749 - VK2RSY 11 / UA9 33 / VSG 22 /			DOW 14					DEACONTEN W		
									BACON - TEN		
									289.9 / HK5TEN ATO 9		
									4 W JOB KK - ØTH H		
									L NA DW WATTS		
									ANT P FFIVE W		

ZL1BOK / 6A4 / TØA (CBD)

11/26

2130 – 50.740 / .760 > TV2 — ZL3 Christchurch 10

(55.260 +20 / .250 +10 / .240 +5

When goes down – 750 TV1 +40

48.240 – +20
.250 – +30
.260 – 55

2230 – 2310 CWs – NO SIGS

867
Res ZL2

11/27 – 26 – 20m

0935 – (W) 4, 6, 9

WA4DJS, VK2RYS, ZL2MHF

FSK Desires 225.7 ? 23m+

12/06 –

2020 – VK2RSY +479 + NH6 – 0720

2052 – Same

2114 – " + → 57 08m

2216 – Nothing / JA, 479 22-10m

2247 – F, EA3JA, VK2RSY, EA4, IK8,

2316 – VK2RSY, EA3JA, 10m

2324 – DL6IGI, NA6,

74
W1HXO

PS/B
YO LD Rig was Nex,
WC8D/
W3VD

12/07 –

0824 – WC8E/W3VD/KW7Y/
MUF 36.2/KL7/KA1/W6/

91 – 49.750
90 – 45.250
89 – 49.250
88 – 48.250
87 – 46.250
86 – 57.750
85 – 45.750
84 – 55.250
83 – 28.254 (9)
82 – 28.224 (6)
81 – 28.224 (8)
80 – 28.229 (5)
79 – 28.248 (8)
78 – 28.252 (2)
77 – 28.254 (5)
76 – 28.255 (3)
75 – 28.261 (3)
74 – 28.266 (8)
73 – 28.269 (6)
72 – 28.279 (9)
71 – 28.297 (5)

WC8E – 295.4
W3VD – 294.7
– 286.0 +

W4UXO – 221.7

TT

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME	QSL S	QSL R
14/12/90	2118 - VK2RSY	SSB	50								
	28.885	SSB	50	2144	VK3AUI	57	57		QSO = 2m		
	Beacon to 22m A -			NO SIGN OF 50MHz SIGS -					GIL / MELBOURNE -		
	10 Dead after 2245			- only 22 / VK2RSY					Queensland #1		
	2357 - VK2RSY		55(+)						S. NSW #2 (Canberra)		
15/12/90	0041 -		53	2242MHz / EA3JA // DL -					+ Translators -		
	0735 - TX / KW7M			WA4DYS / K1JT UPI / W3VD / W9 / W2 /					KB4UPI ✓ 266.9 (No Carrier)		
	VE4 / K3								(EM62) aL 73		
	No Sigs in 30s								VE2HOT 28.282.1 ✓		
	0871 - 35.2 / nil / VK2RSY / VE2HOT								KK4M - 28.286.4 - LV, MV. ✓		
	SE Aus / A5 / K2								KE2BI - 28.286.1 ✓		
	1016 - 35.22 +60			But (Mar) under 36 (35.38)					WC8E - 28.293.4		
	Passing FM 35.300 / 35.340 EC +2kHz / 35.081 US FM / 35.958 FM (SS) / 33.2m FM								43.418 AO		
	35.954 (SS) / [Very Strong F Cut off]										
	1055 - 35.98 FM/USA / 35.990 (SS) ≠ USA		59								
	1121 - 36.518 FM AO										
	- JA / VK3AFW										
	1127 - 39.00 FM (35)										
	1140 - 36.026 JA FM / 36.750 JA FM										
	1159 - 37.375										
	1230 - 36.100 FM / 35.200 US/			35.220 53 / Repeaters fm/FM 35.680 (59)					W1GE / 3 days after Flux peaks / 50 MHz		
3m	PY2AMI / KW7M			VK4RTL 55 / VK2RSY 52					MUF PICS // Prolonged Periods of Quiet Not Good Except		
	1635 - 35.650 TD then Down 70¢ VK Transmissions								over Poles // 27 day intervals is best //		
	1706 - 32.300? / 35.630 TD +40 HAM QSO								Ultra Violet Flux is Missing Variable - Recent NOAA Rpt		
	1818 - I4 / UA3 / UA6 /			PY2AMI / EA3JA 6m 2m / VK2RSY / DF6AA3 / UL7 FCG /							

12/13/90 1040 LT

37.500
.660 FM - USA
.850 QSO
39.560 (?) ON/OFF Some FM

1108 -
36.930 - FAX?
37.460 - FM / USA
.620 - FM
.700 - FM/USA
.680 - FM/USA - Scan?
.480 - FM/USA

1130
37.740 FM/US

1134
39.125 FM
37.560 " USA
37.940 " "

1203
38.850 - NO FM

1205
39.317? / 39.175? /

1330 - Below 36
34 cw - JA FM 35 - 35
.290 .457 .700 / 29.5

35 / 36 / 37 / 32
825 / 140 FM / 2m / 150 +

US ?/FM (35.980) (38.950?)

36
.350 +

15:10 - JA Gone 36-38

17:30 -

35.468 AO
1900 - 38.870 AO + SYNC
38.960 " "

Fixed Antennas – GG Ranch

90° – Central America / Caribbean – [Down Hill] – Nose up

45° – California (SF & North) Yes – [Staggered on Hill] Nose up

0° – USA / W Africa – [Straight out]

315° – P29 / B4 / Central Asia / Central Europe – [Up Hill Nose]

270° – VK5 / VK6 / VU / 4X4 / I / – [Up Hill Nose]

SI 1 BDO

Beams

6 – 6 over 6 — Fold over with 432x4

10 – 6 over 6 — Fold over with 144 x 2

(2 — Long Boomers x 2) — Fold over

20/17/15/12 – Log —

432 – Long Boomers x 4 — Fold over

40 – 3el

OR Reitw 55G / 65G?

QT

Cushcraft / A3WS (12+17 Meters)

4.1 Sq Feet

MASS –

#42" OD ⇒ // .78 to .314" Wall // – 24' Long

Lists: Metal & Cable Corp Inc

P.O. Box 117

Twinsburg, Ohio 44087

Tennadyne (Log 14-30)

1361 Kennedy Drive

Denver, Col. 80234

EDCO

325 Mill St.

Vienna, Va. 22180

#1 – Nevada Discone 25-1300

#2 – CLP 5130 Log 50-1300

Fold over Towers

Texas Towers

1108 Summit Ave, Suite #4

Plano, Tx. 75074

55G

FK4544 – 44' – 34.8 Sq Ft

FK4554 – 54' – 29.1 " "

FK4564 – 64' – 28.4 " "

+ GGK45G11 – Double Guyed –

+ Rotor Plates

Rotors – Telex HDR 300 –

25 Sq Foot Capable

+ Base Stubs

How Long a Run – Cable Avail?

Small

Discone / 25 – 100 MHz – 2 Minimum

Rotating Log – 30 – 60 Minimum – 1 H3, 1 V5

N2UA

HS0AIT

AP5HQ

YT2JA

UL7FCG

Software: Renaissance Softw.

Visa

Box 640

Killen, AL 35645

1149 – Geoclock –

1085 – HR 5 – Pg. 98

1089 – Mapper

1094 – Form Control

1110 – K1EA Losser

$3.50 + $1.00 For 3.5" Discs

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH	NAME	QSL VIA	QSL S	QSL R
15/12/80	2046	48.7 SV2uA		48.7 HSAAT +	48.7 APSITQ								
	28.484.6	SSB	80	2100 0800	YT2JI	57	57		BOB		CN2ACQ		
	2116 - CN2ACQ	52.8											
0818 *	28.521	SSB	80W	2118	CN2AQ	56	57		SJOERD	Tangiers, Morocco		X	
*	.526	"	"	2120	Y26GN	57	57		HANS	E. GERMANY	CHEMNITZ	GRD PLANE 100 WATTS	
	"			2139	IK1BGJ	59	59		Charlie	ITALY (Asiago Valley) - 20 CONT			
	"			2140	ON8AW	57	56		Peter	Belgium -	GRP		
	"			2146	FC6IUS	57	58		Louie	France -			
	"			2148	Y26FA	58	59		Joe	E. GERMANY	100 20CL		
	"			2149	RA3 DDU	58	58		Alex	Moscow			
	"			2151	SP 7HT	56	55		TADEK	Poland			
	"			2156	RA9 LBH	57	57		VICTOR				
	"			2157	DK2 QR	58	55		MAR	(YL)			
	"			2159	DF5IW	58	59		Hugo				
	"			2200	UB4 WZA	58	58		MIRO	Ukraine	5el CC		
	"			2202	YL1 WW	59	59		SANDY	LATVIA UQ2	YB2LC	X	
	"			2204	DF9PG	59	59		Mike	GERMANY			
	"			2205	PA0LEG	58	53		Leo	Netherlands	ZL6ADN		
	"			2208	DH9NAT	55	57-9			GERMANY			
	"			2210	DJ5 PG MUG	59	57		HORST	N.W.	NOREDN		
	"			2212	DL8FAJ	56	56		WIL	C. GERMANY			
	"			2215	UA 3 DNC	59	59		KEN	MOSCOW			
	"			2216	UA 9 JGX	57	55		ALEXANDER				
*	"			2218	IT9HLR	55	33		Salva	SICILY			
	"			2220	DJ4ZB	57	57		L				
0920	"			2220	I2BUH	59	59			ITALY			

DATE	FREQ.	MODE	POWER
8/12/90	.45/	SSB	80

TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH	COMMENTS NAME	COMMENTS QSL VIA	QSL S	QSL R
0105	~~KB4YTD~~	59	59		KY	025			
0106	~~KA5EJX~~	59	59		TX	026			
"	KFØMB	59	59		Io	027			
	~~KB7 LUI~~								
	AA								
0108	W8BI	59	59		Oh	028			
"	AA5PA	59	59		NM	029			
0109	KB7LUI	59	59		WY	030	MATT	Y	
0113	W9OP	59	59		Wisc	031			
0114	K9MWM	59	59		CoL	032			
0114	VE7WF	59	59		BC	033			
"	K4TXJ	59	59		KY	034			
15	WØGI	59	59		~~Fmo~~	035			
16	NØTK	59	59		CoL	036			
"	KQ9L	59	59		Wisc.	037			
"	KA8WEO	59	59		Ohio	038			
17	N4FZI	59	59		KY	039			
~~19~~	N4DIT	59	59		KY	040			
	~~TT~~								
21	KI4NJ	59	59		KY	041			
"	K4KJQ	59	59		KY	042			
"	W5LLY	59	59		TX	043			
23	KC5CP	59	59		TX	044			
"	N5HHS	59	59		TX	045			
"	W5KFT	59	59		TX	046			

ZL ϕ AAA

4

JJ3

6D2X

KC2 FB/DN3

NN7L K

YCL

KC 3MR

K6GSS/KAC

OSS

KI5LA

W6 NV

KC7UO

MT

KC7UO K6HNZ VSGWO - 08 530

KA7 NOC

DATE	FREQ.	MODE	POWER

TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
0125	W9UP	59	59		WISC.	047	
0136	6D2X	59	59		MX. - 59+48	48	
0139	N7BES	59	59		WN	49	
0148	W7NI	59	59		ORE	50	
0157	KG6SS/KH6	59	59		HA	51	
0155	W6NV	59	59		CAL	52	
0155	WL7E	59	59		AK	53	X
0158	KC7UO	59	59		MT OS	54	
0159	KP2A	59	59		(PR) #057	55	X
0202	KC3MR	59	59		PA	56	
0208	NN7L	59	59		WN	57	
0214	KI5LA	59	59		NM	58	
0253	VS6WO	59	59		#223	59	X
0306	KE2FB/DU3	59	59		#004	60	X
0317	JA7YAA	59	59		#232	61	
0317	JA2YKA	59	59		#222	062	
0317	JA6WJL	59	59		#084	063	
0317	JA6RUR	59	59		#025	064	
318	JH8BOE	59	59		#101	065	
"	JA1BUI	59	59		#076	066	
"	41MG	59	59		#053 V3	067	
"	JA3YDS	59	59		#226	068	
319	JA3RL	59	59		#010	069	
319	JF4PPY/1	59	59		#013	070	
0320	4W9VA	59	59		#001	071	

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH	COMMENTS NAME	COMMENTS QSL VIA	QSL S	QSL R
				0322	JG1AOU	59	59		#064	#072			
				0322	JH8PNE	59	59		#080	#073			
				"	JN2BYF	59	59		#002	#074			
				"	JR9LKE	59	59		#012	#075			
				"	JA3WFQ	59	59		#010	#076			
				"	JA6AXE	59	59		#009	#077			
				0325	JG1PMZ	59	59		#001	#078			
					~~ABB~~								
				0326	JG1ADI	59	59		#001	#079			
				0325	JA2ITQ	59	59		#031	#80			
				0 "	JA3JOT	59	59		#025	#81			
				"	W9RE	59	59		IND	#82			
				"	JA1SGX	59	59		#342	#83			
				0328	JA1FFC	59	59		#055	#84			
				0329	JA1WWE	59	59		#005	#85			
			•		JH0FBH	59	59		#029	#86			
					JK1CWI	59	59		~~#035~~ 038	#87			
				0338	JG6FLL	59	59		#095	#88			
				"	JH1IZA	59	59		#086	#89			
			✓	"	JA2QAXX	59	59		#060	#090			
				"	JR2TQG	59	59		#001	091			
				"	JE2THW	59	59		#005	092			
					JH1MXU	59	59		#003	093			
				0343	~~JE~~JH3JSS/1	59	59		#007	094			
			✓		~~JR9~~JA4AYA	59	59		#008	095			

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH	COMMENTS NAME	COMMENTS QSL VIA	QSL S	QSL R
				0345	JJ1DBJ	59	59		#046	#096			
				"	JI1EOM	59	59		#008	#097			
				0346	JE2IFM	59	59		#089	#098			
				"	JA6EFJ	59	59		#069	#099			
				"	JH1RFR	59	59		#001	#100			
			✓	"	UA9UDR	59			#001	#101			
				"	JH1OGT	59			#007	#102			
				0347	JA8YH	59			#001	#103			
					JA9HDH	59			#148	#104			
				0349	JA2JIC	59			#069	#105			
				"	JH1CMA	59			#015	#106			
				"	JR1UBR	59			#054	#107			
				0350	JA9SC	59			#095	#108			
			✓		UZ9AWZ	59			#023	#109			
				0351	JI3WBI	59			#116	#110			
				"	JK2XJR	59			#018	#111			
				"	JH3PAS	59			#206	#112			
				"	JA9CAV	59			#175	#113			
				"	JA7MGP	59			#020	#114			
				"	JH7XKI	59			#006	#115			
				"	JA3GLU	59			#043	#116			
				"	JA8EDN	59			#013	#117			
				"	JR3NZC	59			#0323	#118			
				"	JEØVSW	59			#014	#119			
					JJ3FBS	59			#012	#120			

After Moving Ant.

- .3W - 50/2+
- .4W — 50/2—
- .5W — 50/2—
- .6W - 50/2+
- .7W - 50/6

4C ϕϕ EP

4N 4CX 529.7

~~SPG DFFA~~

JS13

LOC

LA2

~~OK3CFA~~

~~DL6SN~~

DF2

PA1ALX

~~4PR~~

~~DL1WT~~

~~I8QLC — 463~~

~~FK2EKY — 540.0~~

~~KG0X — 510.0~~

KJ/

4Y4A 480.6

2W ϕJR/507.8

FW4

I8QLC RWN

BV2WA

DL3PC

AQi

N4CX

4X4CX

#210

4T7WW

~~I4MMV~~

22DF

~~UA0 M AA~~

~~VK2NYA~~

OK1RI

LA2 #30

UC1WWO

LZ52

UT4U2

HA ϕ DX

4Y4AA

~~UZ6WWL~~

IK8EKY

UA3QJC

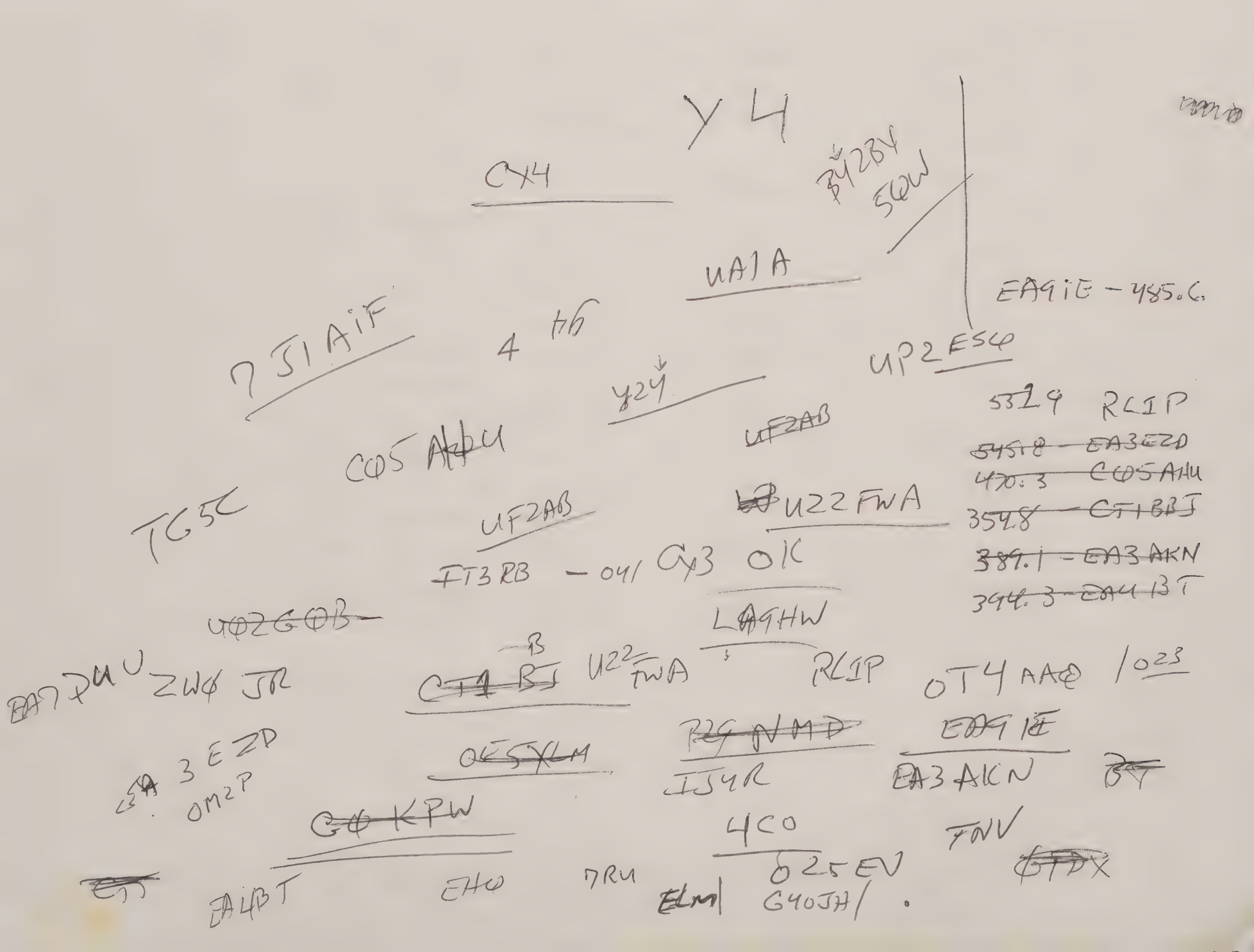
UB4 WBC

IU3BMV

DA ϕ FDX

LS2

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH	COMMENTS NAME	COMMENTS QSL VIA	QSL S	QSL R
				0357	JH1UAM	59	59		#180	#121			
					JA2RDO	59	59		#009	#122			
					BV2WA	59	59		#210	#123		X	
				0416	VK2NYA	59	59		#305	#124			
				0540	UA3QJC	59	59		#086	#125			
				0544	UB4IBL	59	59		#072	#126			
				0553	HG5C	59	59		#012	#127			
				0554	LZ52	59	59		#042	#128			
					~~4U3HQ~~	~~59~~	~~59~~		008	~~#129~~			
				0606	HA0DU	59	59		#005	#129			
				0629	YU7RU	59	59		048	#130			
	CW	D/O		0630	UC1WW	59	59		040	#131			
				0635	I4MMV	59	59		008	#132			
				0639	KG6DX	59	59		589	#133			
				0644	LY2ZO	59	59		047	#134			
				0646	SP9DFH	59	59		022	#135			
				0653	OK3CFA	59	59		056	#136			
		?		0655	DL1WT	59	59		015	#137			
				0707	DL8PC	59	59		028	#138			
				0710	YC0SEP	59	59		045	#139			
				0716	OL9A	59	59		108	#140			
				0717	IV3BMV	59	59		022	#141			
				0723	FIL	59	59		026	#142			
				0730	OH5TQ	59	59		056	#143			
				0738	PA3EPN	~~59~~	~~59~~		~~084~~ 056	~~#144~~ #144			


Y4
CX4
UA1A
EA9IE - 485.C.
UP2ESQ
5319 RCIP
UF2AB
U22FWA
CQ3 OIC
LA9HW
RCIP
OT4 AAQ /023
EA3AKN
4CO
025EV
G4OJH/
FNV
7RU
EHQ
EA4BT
IJ4R
TG5C
UF2AB
CQ5 AKBU

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH	COMMENTS NAME	COMMENTS QSL VIA	QSL S	QSL R
		SSB	80	0742	PZ9NMD	59	59		#002	#145		X	
				0747	OT4AAQ	59	59		#030	146			
				0748	OZ5EV	59	59		031	#147			
				0813	~~PA3~~ FNE	59	59		#~~B~~016	#148			
				0816	UZ2FWA	59	59		#076	#149			
				0818	G0KPW	59	59		075	150			
				0826	OE5XLM	59	52		011	151			
					~~HG5C~~	~~59~~	59		~~254~~	~~152~~ 152 VU2DD			
				0844	EA3EZD	59	59		093	153			
				0846	LA9HW	59	59		074	154			
				0848	CT1BBJ	59	59		074	155			
				0854	~~EA~~4BT	59	59		071	156			
				(Gone Randy 0930)						~~157~~			
				CBACLW 1025/ OM/ TA 57-9 PIC- NO RADIO QSO/ EA3 NOW SLM						~~158~~			
				CPI2HB 1110/						~~157~~			
				1211	K1NG	59	59		RF	159			
					~~WN7L~~	~~59~~	~~59~~		WA	~~158~~ 158			
				1731	GW4BLE	59	59		1059	158		X	
				1741	N4IE	59	59		ME	159			
				1751	N3AOE	59	59		MD	160			
				1753	WE7B	59	59		UT	161			
				1754	K4SF	59	59		MA	162			
				1759	W2SZ	59	59		NY	163			
				1803	WB2~~EAR~~	59	59		NY	164			
				1808	G~~BM~~ CT3M	59	59		1017 Madeira	165		X	

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH	COMMENTS NAME	COMMENTS QSL VIA	QSL S	QSL R
				1815	KE2CG	59	59		NJ		# 166		
				1818	K2IM	59	59		MA		167		
				1822	N4JII	59	59		TN		168		
					~~N4JII~~						169		
				1828	NW3B	59	59		PA		170		
				1830	NW3C	59	59		PA		171		*
				1838	VE4VV	59	59		~~Col.~~ MANITOBA		~~172~~ 172		
				1840	VE5SF	59	59		SASK		173		
				1841	W0RA	59	59		COL.		174		
				1842	WB1GOR	59	59		VT		175		
					~~W1WCO~~								
*				1844	AH3C	59	59		1039		176	*	
				1845	KE7UH	59	59		ID.	(177)	178		
				1857	KC4JMH	59	59		VA		179		
					~~KE5~~								
				1901	KS3F	59	59		DEL		180		
				1908	N9ITX	59	59		ILL.		181		
				1912	W5WMU	59	59		LA		182		
				1923	ND1X	59	59		CT		183		
				1926	NX9T	59	59		NC.		184		
				1928	W1BWS	59	59		CT		185		
				1934	W3USS	59	59		DC		186		
				1941	N1TZ	59	59		MA		187		
				1945	W0AKT	59	59		SD		188		
				1948	KA1CRP	59	59		NH		189		

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
				1949	K4XS	59	59		FLA.	190	
				1950	WA4NJP	59	58		GA.	191	
				1953	N4QWL	59	59		SC.	192	
				2002	4U1UN	59	59		[illegible]	193	X
				2005	W[illegible]2ZY	59	59		PET	194	X
				2030	KD4TT	59	59		ALA	195	
				2034	NTØJ	59	59		MS	196	
				2109	K6LL	59	59		AZ	197	
				2113	WØØG	59	59		MO	198	
				2132	NØHJM	59	59		ND	199	
				2147	K5FMV	59	59		ARK	200	
				2149	N8APA	59	59		WVA	201	
				"	N1DOH	59	59		VA	202	
*				2153	CGAFP	59	59		#105V	203	X
	444			2157	WD8MJX	59	59		MI	204	
				2159	KK4QN	59	59		FLA	205	
	515.8				KB[illegible]HUN	59	59		NY	206	
				2201	KC4CY	59	59		NJ	207	
				"	W2HGX	59	59		FLA	208	
				"	AA9D	59	59		ILL.	209	
				"	JA2ZL	59	59		COL -	210	
				"	N[illegible]4S	59	59		TN -	211	
				"	KG6XF	59	59		CAL -	212	
				"	KØMAT	59	59		MO -	213	
	50V			"	KB[illegible]HMA	59	56		KY -	214	

Rotate Beam – Ants.

	50.0W	.1W	.2W	.3W
SE	20/2			28+/
E	18/2+			26/2-
NE	18/2			23/2-
N	20-/2			26/2-
NW	22+/2			26/1+
W	22/2+			30/2-
SW	22-/2			27/2/
S	23/2			28/2-

Beam – Comp 10/12/90

50.0W – 20/2
.1W – 22/2
.2W – 25/2
.3W – 26/2-

6 mtr – Beam ns 08/12/90

50.0W – 20/2
.1W – 20/1+
.2W 20/1-
.3W 20+/1--

From

73 GCAS

DATE	FREQ.	MODE	POWER
12/12/90	28.525	SSB	80

TIME N2DT	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH	NAME	QSL VIA	QSL S	QSL R
2222	I1 P YS	59	59		AL		0922		
2223	IK4DCT	59	59			David			
	SP9ZD	59	59			Henry			
22	FB1NAN	57	57						
2224	UA4CDL	57	59						
2225	SP6 BOW	59	59						
2226	OK1AFO	59	59			Tomda			
2226	IK1AZK	59	59			"			
2227	HA6 NF/1	59	59			Dodi			
2228	I1U GT	59	59						
2229	RA3 MQ	55	56			Jim	Moscow		
2229	I1APQ	57	57						
2230	I3DHN	57	55						
"	SP5LKM	57	57						
2231	DK7SP	58	55			Peter			
2232	UA9SAB	57	59						
2233	SP5BWO	57	59						
2233	IK3HMB	57	55						
2235	UA3EEN	55	59						
2236	RA4HDW	55	56						
2237	DJ8PR	55	55						
2237	I1GMF	59+	59+			Julian	Torino, Italy		
2240	YZ9 SWO	55	55						
2242	OE1 PEW	57	57			Sieter	Vienna		
2243	DL2SAD	58	59			Klaus			

0943

5 or more el - 5/8 λ or 1 λ = 10.52 Meters

34.47 Feet

(10)

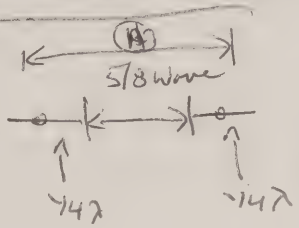
21.55 feet is 5/8 Wave — 28.500

(6)

= 5.99 = 19.61 feet

12.26 Feet 5/8 Wave — 80.010

(2) = 2.08 = 6.82 feet (4.2 λ Long Yagi) =



= H3 Spacing —

H10 = 34.47 + 4.31 = 38.77 Feet

H6 = 19.61 + 2.45 = 22.06 Feet

Between Arrays — 1/2 Boom Length of Shortest Yagi — minimum

— 1/2 λ of Ant At Higher F

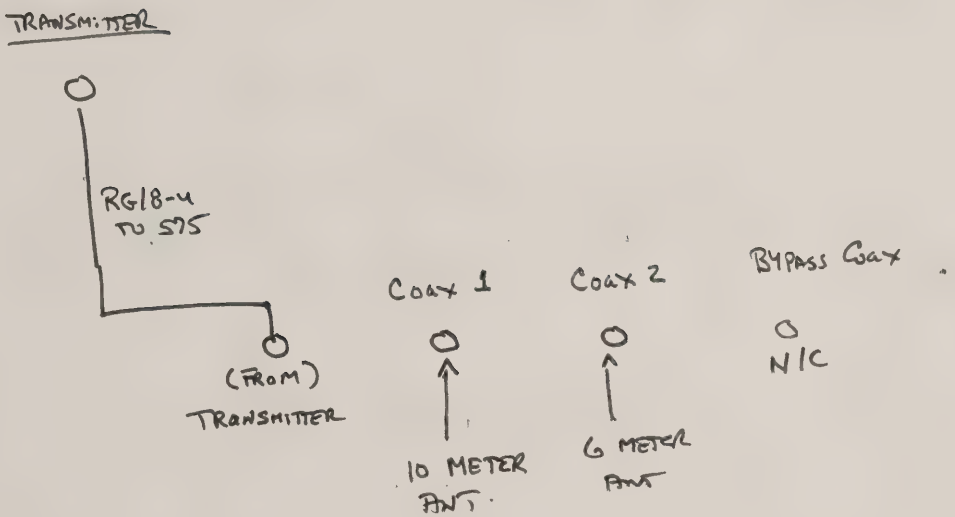
DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME	QSL VIA	QSL S	QSL R
15/12/90	28.525	SSB	80	2244	EA4EFL	55	55		FRW / MADRID			
				2245	DL1QBD	44	55		WE NET / GERMANY	0945		
					⇒ Various 894/893							
	2349 – Chinese			PGM Audio – 28.845 #1 + 25.					↗ 24 ½ Time Pips — — Chin?			
				A) 28.862 – 2nd with very low Audio Lvl –					+ 29.790 > EE/Cat Language lesson! – Flutter Fade			
				29.119					+ 29.834 > CH. Language Cat – 29.850 Wk Log Cat + 2 Way –			
				(2 way Chinese? – all over 29+) →					+ 30.006 2 Way > 30.120 > 30.200 > 30.250 >			
				(YU2RGE 420(?) 0039)	1143				+ 30.470 > 30.620 > 30.670 >			
16/12/90	28.420.1	SSB	80	0043	YU2RGE	56	55	Rajesh	29.120 – Sig+ 2 Way + WK Mod Pairing		X	
					↑ N. Part of India				29.146 Sig+ " "			
"	.420(?)	SSB	80	0047	DL1ZBE	56	58		29.145 " " " Translations Hans – 100 x 2 OK			
	Lio Mesa Manitime Mobile Nes DIW/12W – QW 28.380]								29.280 Sig+ "			
									29.300 " + LZ1YE			
"	.420(?)	SSB	80	0131	SV1BDO/QRP	44	56		29.600 " + / QRP – 4 Watts / SOFFRIS /		X	
	"	"	"	0135	I8NHJ	55	57	MAX	30.100 55 – 30.200 2 Way 57			
									30.343 55	CAM OB SSO		
(NOT NOW)	.511(?)			0144	LZ1YE	58	58	Nasko	LZ1YE			
								539				
15/30	(0148 – IK4LW3			FLA 52 / YK4RZ – 599 / WA4DJS (CLP)					// Chinese Sig? FM /			
	(0155 – IK2ZAF 57)			(0224 – YV5 – 57(?)					29.120 Sig(?)			
									29.772 – Exc. (Cat.) Audio			
	.532(?)	SSB	80	0226	YV5JDP	56	52		31.823 Cat 2 Way		Y	
	(0257 – 29.770 CH / 30.330 / 28.970 Sig+ 2 Way / (895 abt gone)								28.895 PGM – Sig+ (SVRC Stations)			
	(0326 – 28.) QW –			Lots of Am Sigs – Chinese??								
		28.669 –		" " " " – OM singing –								
		28.534 –		" " " " –						15/He		
		28.304 –		" " " " – + 29.232 – Indian? – Singing –								
14/30	VK4RTL Sig+			VK2RS 22								
	0925 – MUF 36(+)			35.(?) – Sked. 45/3 – Beep + 1-2 S. QW (Cw ID 0932) –					Tone Paging System			
20/30	KW7Y / VK2RZ 22			/ W3VD / WC8C / KE2BF /								

12.58 – 35.5 Sig to Fro / JA ⇒ 34.20W

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS (QTH / NAME / QSL VIA)	QSL S	QSL R
	1255 VK4RSY/								35.495 – ANS. Svc Relay – USAF		
	1416 No 35 USA/								KB4U: /B 232.9		
	33.634	WS/FM							IYE R, SL NiDa ✓		
	33.480	Payen Cam – 34+							KD4EC / 232.9		
	34.7N – JA 59 B+M / +36.600 / +36.200 / +36.850 / +36.900 / +36.950 / +37.120 / +37.175 / +37.225										
	36.250 AØ – CQ B –				No MOD / +37.250 / +37.275 / +37.300 / +37.325 / 375, 450,						
	1528 – 35.674 – Payen +60										
	1843 – " – in dull PM										
	+ JA 35.580/										
	1945 – EAB 33 JA / OH2TEN 33 / VK2RSY 44 / VK4RTL 44 /								– TA2DX – (506.9)		
	7015 – 35.679 gone										
12-16-90	28.505	SSB	80	2108	BY5RCS	57	58		HUANG / P.O. Box 709 FUZHOU, – SE China		
		"	"	2115	G4DUW / DM1	58	55		Justin Philippines		
	.489	"	"	0024	A92BE	57	55		A92 – Tues – CW DON → Bahrain A92BC	X	
	.506	"	"	0028	EA6MR	57	55		ERNIE → Balearic Isls. MENORCA –		
	0035 / VK2RSY 22 + VK5WI / OH2TEN 33 / EA3JA 44 / DL6GI 44 /										
	30.618 + 30.668 / 28.910 / .940 /										
	0915 / KW9N 55 / KØHTF / VK2RSY 11 / W3VD /								KØHTF 28.250.9 ✓ (W3VD) 296.5		
	35.22 / → .58 22 / ← MUF										
	1011 – 35.680			1017 – 2m (?) Pager –					cge TO GMT		
12-20-90	.508	SSB	80	0728 2028	ES1AR	59	59		ENN ESTONIA		
				0744 2044	BY5RA	57	59		HUANG – -579.9- -BY5RA-	Y	
12-21-	.449	SSB	80	0725	FK2JTS	55	58		ANGE – COMO – -BY7KT – (-12C)		
									KHØAC –		

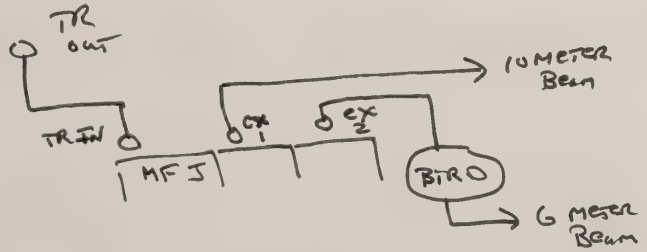
KØ F DU1EGA

MFJ



A) USE COAX 1 - DIRECT 10 METERS
B) USE COAX 2 - 6 METERS

#2



1ST TEST — MFJ

COAX 2 DIRECT (TUNER IN) / COAX 1 DIRECT (TUNER OUT)

90 WATTS F / 7 R AT 2(+) TR MATCH INDUCTANCE
(.077%) 3(-) ANT MATCH

WITH ANT DIRECT
32 - 2
(.063%)

2ND TEST

50 MHZ

1) COAX 2
2) TR MATCHING - #6 (MINIMUM?)
3) ANT. MATCHING - #1+ (2 DIPS VERY CLOSE — JUST OFF MINIMUM)
4) POWER OUT — TO MAX:
   A) FM - 100 WATTS FORWARD - 6+ " REFLECTED OUT ONLY WITH HAND ON CASE — COAX 2
   B) SSB - NO SUCH HAND EFFECT —
   C) FORWARD - 48 WATTS F 4- R 2-DIRECT

(NOTE: MFJ SWR METER NO USE ON 6)

28 MHZ —

FM5DN 439.8

ZuZu Gma —

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
23/2/90	28	SSB	80	0805	B4HAY	57	55		EDDIE /4L —	X	
				"07	DJ8QP	59	59		GUS = MUNICH / SRO XZER —		
				"13	OK3 CDR	58	58		=		
					AD						
				"15	OK1 LM	57	56		MILA =		
				"	IICS BAF	59			=		
				"	DL7 XY	58	55		BERLIN —		
				18	FE6FXU	57	57		=		
				18	OE6GLD	57	57		ALFRED =		
					DL5RU	57	59		=		
				19	IK3 GHW	57	57		=		
				21	HA9R X/DL	57	57		=		
				23	LY3BH	58 HNO	58				
				24	OE5TRL	58	57		OTTO — STEYR —		
*				26	T77V	57	57		PETER SAN MARINO	X	
				27	EA1EVE	59	59		E LUIS ALBERTO — SPAIN		
				29	FGCTL	59	59		YVES — BORDEAUX		
				30	DL2 AM	58	59		HORST — GERMANY		
				32	DH1ZU	59	59				
				33	FGCJA	58	57				
				33	RA4HJU	58	57				
				34	DF2IAC	57	55		FRANZ		
				35	OE5RLM	57	55		RUDY		
				36	DL1SDN	59	59				
				37	YB8HX	59	59			X	
				37	DKØEE	59	59				

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
	28.530	SSD	~~80~~ 5	0840	FG EPN	59	59		OLIVER		
				"	DL4MDO	59	59		WOLF		
				"41	I2N KX	58	56		ZEPPA		
				"42	DL6SN	59	589		FRED		
				"43	OE3 RRW	58	58		-		
				"44	DL5 MEV	57	57		RUDY		
				"45	IK5 EPM	59	59		MAU		
				"46	RL7P iJ	59	59		VAL		
				"47	RB5WO	59	59				
				"47	OT7 YD	59	59+		-		
				"48	EA3EJi	58	58		RAMON		
				"49	DK2WV	59	59		1 MUNICH		
*				"50	Y33 [redacted] VL	57	57		MAR - DRESDEN		
				"51	UA9 SAB	57	58		[redacted]		
*				"52	SM5 AQD	59	59		HAWK -		
				"53	SM1 BDA	55	55		- LARS -		
				"54	UA3 RPA	56	57		~~[redacted]~~ VALO		
				"55	DK8 DB	58	57		CLAUS		
*				1020	[redacted] GM6/JH1ROJ	57	59		BURNEO - ISO (GM6HF House) 21.195 - VPS JM	X	
*	12/23	.479[8]	SSB	80	14[20]	KA3BJU/HZ	55	56		JERRY - 30w/dipole - (V?)		X
	50.110				0853	VK3DHT	59	59		NORM -		
	50.130				0854	VK3TDY	~~59~~	57		MIKE - ~~570+~~ 5701	5901	
					0856	VK2ZGE	59	59		(BOB?) - ~~590+~~ 5905	5902	
					0857	VK3XRS	59	59		ROGER QF32 5957	5903	
					0858	VK3BR2	59	59		CHARLIE QF21 5917	5904	

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
12/24	50..130	SSB	80	0900	VK3 BMY	59	59		WEN - 59DS | 59DS		
	.130	SSB	80	0906	VK6KXW	57	59		PEGA - 400 W		
				0907	VK3CK	59	59		RAY - →		
				0909	VK6HK	57	58		DON - - OF78 -		
				0912	VK32JC	57	59		JOHN -		
				0910	VK6RO	57	57		GRAHAM - PERTH -	X	
				0913	VK6YU	59	59+		DAVID - " 30 miles SOUTH -		
				0914	VK3TU	59+	59+		BERT 5930 · 591		
				0915	VK5ZBK	56	56		STAN (5605) (PP45) QF21 DY 5605	59 X3	X
				0917	VK3DQI	59	59		ROD - QF32		
				0917	VK6OD	55	57		GARE - -		
				0918	VK3YDE	56	53		LARRY - 5915		
				0918	VK3YBY	54	58		RAY -		
				0920	VK3BEH	54	58		JOE - 10 WATTS - (ZL2UBG)		
				0922	VK6KU	57	57		DAVID -		
				0926	VK3AMK	59	59		JEFF - [- 03002/ 0100 ON - // 4-7AM LT (12-14Z TE QSB)]	X	X
				0935	VK3DUQ	59	59		QUENTIN - Leaving 0325 IA81, - MUSS24 NIGHTFIRST -		
				0936	VK3AZY	59	59		JIM - 49.750 - SAME AS NORMAN VK2 -		
				0938	VK3YY	59	59		GLEN -		
				0940	VK3KTO	57	59		BIKE - 2 WATTS - 4 EL.		
				0945	VK2YON	539	42		-		
				0944	VK3VD	44	56		-		
				0945	VK3AOS	56	59+		ROY -		
				0947	VK3KAQ	56	59		-		
				0948	VK2ZXC	59+10	59		NORM - QF33 /		

НОЧНОВА

10 метров — 28.885 / линия

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
24/12/90	50.130	SSB	80	0957	VK1RX	53	51		PETER — CANBERRA	X	
				0952	VK3AMZ	54	59		BSK 10W/ — ARIE — 2 MTR TO VK4 — 0420	N/A	N/A
				0957	VK7 ~~HKJ~~	33	52		— HOBART		
				0959	VK2YO	44	55		NEIL — (QTH 56) X		
				1000	VK4VC	44	54		KEN —		
				1001	VK3ANP	57	57		DAVID — QF33	X	X
	23			1003	VK2ZGE	59	59		BOB —		#37
					~~ZL4DDG~~	5					
				1005	VK2ZGE	59	59		BOB — ZL4DDG		#38
									46.240 / 51.740 BEACONS 52.369.6 52.419.5		
				1103 — 1134 —	52.420 — VK2RSY "	"	"	" 579 OFF SIDE	"		
				1152	VK3DQI	55	56				
				2136	3D2PO	59	69		IAN — FIJI RH82 FT680R — 60W / 300W	X	
				2148	3D2ER	~~59~~	~~59~~		ROJ — FIJI 30W / 5/8 WAVE	X	
									— VK2 — BRG — (V73AT — MARSHALL ISLES)		
25/12/90	50.										
	28.401	SSB	80	0904	VK6HMR	56	55		HARRI — GEORGIEV CITY		
				(ONLY SIGNAL ON BAND) (CTHAN FOR FD / IT etc)							
				~~04~~	~~FD1RDC~~	~~44~~					
					~~K2HTC~~						
	50.110	SSB	80	2222	VE1GRR	33	44		DAVE — TONY	X	
	.885			2236	~~K1~~ NIGEL/KAG	57	57		SHELL —		
	.110	"/CW	80	2249	ZL4TBN	56	56		DAVE — 0500 / 0530 DUNEDIN		
				(2300 - VE1GRR (SSB) IN)		2306/2311/					
				(2349 - ZL4TBN ASN							
				(0035 - VK2ZXC SQ PIC)							

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
26/12/90	28.444(5)	SSB	80	0642	YO6OBH	58	58		STEFAN (VK2ZXC)		
	.517	"	"	0944	CT3 FF	55	55		Joe - Madeira Isl	Y	
									HB9DFD 482	O	
26/12/90	50.110	CW	100	22W	VK4PW	339	429		JOHN - ES? - ALSO ZL1VFJ (CW) FK8FR		
	.160	"	100	0217	VK2ZGE	449	459		BOB		
	.110	"	"	0222	VK2BSD	339	559		CARL		
28/12/90	.110	SSB	100	0709	ZL3TIC	59	59		MIKE - REGG - CHRISTCHURCH		
				0711	ZL3AAM	57	59		JOHN - " - " G5UB	K	
				0714	ZL3ADT	57	59		RUSS - "	X	X
				0723	ZL4LV	57	57		PETER (12NOV HC1GE / TODAY 57/130) → DUNEDIN CITY - ZL3BHX - KAITAI		
				0729	ZL3TY	59	59		BOB - GREYMOUTH R 57 (50.042.3 & ZL2MHF)		
29/12/90	.110	"	"	0854	VK4KU	59	59		BERT - NERANG - Dec 22 / Jan 14 GEL x 160 WATTS		
				0900	VK2ZGE	55	55		BOB - /5526 // 5501 - 3/26 -		
				0907	VK3OT	57	53	0936	STEVE - QF92 VK9YQS - LORD HOWE (0135) VK9NS -		
30/12/90	.110	"	"	0920	VK4PW	54	55		(12/23-0900) JOHN -		
31/12/90	28.488	"	"	0829	LX9DX	57	4		EDDY (LX1EA)	X	
	50.130	"	"	2140	FK8FU	58	54		DANIEL - NOUMEA	A	
	.125	"	"	2145	3D2PU	57	56		IAN =		
	.125	"	"	2155	VK9YQS	57	58		DOUG - LORD HOWE ISLAND QF98 .325	A	
	.125	"	"	2159	VK2FA	56	56		[illegible] - NEWCASTLE (STEW ARMAND) (VK2 BCEON RTTY). TEL 049-548-688 -		
				2216	VK4APG	59	55		PETER - QE62		
				2217	ZL3TIC	59	59		MIKE VK9NS - .150		
				2230	VK4KJC	59	59		JOHN - QL62		
				26	ZL4AI	55	55		KEITH 10W) DIPOLE - 25M DUNEDIN		
				26	ZL4TBN	56	59				
				26	ZL4LB	55	53				

ZBeam / 171.4(5) + 173.5 (RF65) CTR - 171.4 - (171.6 USB)

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
31/12/90	50.125	SSB	80	2229	ZL3AAW	56	58		MAX -		
				30	3D2ER	56	56		- JJ1NLR		
				2234	VK4WA	58	59		KEVIN -		
				2231	ZL3TSM	57	57		SNOW -	X	X
				2232	ZL3TSM	57	57		SNOW - [ZL6ADG]		
				2235	VK4GK	57	57		TREVOR - BRISBANE		
				2237	VK4ASB	53	55		DAVE - "		
				2238	VK2EVB	53	55		PETER - QF59NR		
				2240	VK4APG	55			- 120 MILES (122.4) TV measurement		
				2247	VK2ZSC	55	55		STEVE - SYDNEY		
				2252	VK2ZDH	57	57		DAVE - BLUE MTNS, W. OF SYDNEY QF56	X	X
				2255	VK2VC	56	55		VIKKE -	X	X
				2256	ZL3TIB	58	58		MURRAY - RG66 FM01E/G5UV/-GEL-		
				2258	VK2FRU	55	57		BAS -		
				2300	VK2KTT	57	59		PAUL -		
				2301	VK4ZAA	56	59+		MICK - BRISBANE		
					50.325 - BEACON - FSK				VK2RHV 53 + VK2RSY 57 50.420		
		- 0555 -			ZL2MHF ↓ TO 59				ZL2MHF BEACON QRT .043 USB .042 CW		
01/01/90				0557	ZL3AAW	56	58		NIGEL (0515) - 074/062 - (JOHN)		
				0627	JH1 ? - 109.9				JA9 LSB - 0640 (.125)		
				0642	JH1ECH	55	55		JH1 LSB (TAKA) ECH - PM96		
				0644	VK2PA	56	57		PETE - QF68 (04 D)		
				0647	JJ1NLR	33 449	55 56		PM96 - VK2		
				0650	JN1LSB	57	55		QM05 SHIN -		
				0650	JE1VOW	57	55		KEN PM96	X	X

ASK QST VK4ICTN - 52.445 VK4RTZ 52.440

RF65

	DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
	01-01-91	50.124$_8$	SSB	80	0657	ZL3JTC	59	59		27/33/89 - 2154/0404		
					0651	JA1VOK OKV	56	56			K	
					0652	VK2ZGE	56	55		5525 BM		
					0654	JH1ECU	56	55			K	
					0655	JH1MCX	44	43		JA2824 -	X	
		.114^5			0704	FK8EM	59	59		PETER - FK8EM 114^7	X	
		.117^5			0706	JA2BZY	57	57		YUSI - JA2BZY PM85 NAGOYA		
		.			0736	ZL1ANJ	56			MARTIN - - LEC/NUMEA (HAMILTON ZL2TZ)		
		.134^8			0815	VK7ZIF	59	59		IAN - QE37QC - (VK7AM)		
					0824	VK7LZ	578	589		CARL - -		
					0823	VK3ZMF	57	59		FRANK -		
					0824	VK3DUT	57	57		NORM - QF22		
					0946	VK3OT	59	59		STEVE -		
		.104^9			2151	FK8EB	55	55		HENRI -	X	
*	02/01/91	28.315^7	SSB	80	1134	HB9BBD	59	59		DOMI - SWITZERLAND		
		"	"	"	1145	HB9CCJ	56	55		BERNARD - " CCJ		
*	06/01/91	.500	SSB	"	0555	ZLØADN/ZL7	55	55	(4U ZC4EPI)	CHRISTMAS TROODOS, JOHN CYPRUS /ZL7	X	
	06/01/91	.476	"	"	1158	SB4ZL	55	55		JOHN CYPRUS	X	
		50 .120	"	"	2224	ZL3TOT	59	59		PETE - RE66 (SM5KNV 430^5) (XU8DX 478.1) YAØRR - PAKISTAN - JAN 05		
		"	"	"	2233	ZL1ANJ	56	56		MARTIN - ZL1TZ - TONY - 500W OMS - XCVR 100W OMS - 25 1ST/2ND/3RD/4TH - TOWI 50 WATTS 28 MHz = PUP (50 MHz)		
*	10/01/91	28.474^8	"	80	0228	CX5DP	55	55		MARIO -		
			"	"	0231	JL1EEE	59	59	0304	HACK - N. TOKOYO		
*		28.494.9 499.8		80	1023	XU8DX	59	59		P.O. BOX 73 GAR CAN - ADANA, TURKEY	X	
*		28.447^9	"	80	1300	TA5C	59	59^{+10}			X	
*	12/01/91	28.446^5		80	1303	SV5FD	57	57		CALBOOK/LOKI	X	

44.9970 230° (VK7YOM)

50/60 Hz - 55.25 GROWLING - THAILAND/DU

OMIYA (CITY) 760-PRO
GM3XIS - VERY CURIOUS MINDED
TO ZKW - VERY CRAZY/VERY NICE
2 MIN - 20KC SEP. MS 25KC

2B4SAA

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
14/01/91	50.109	SSB	80	0835	VK4KU	59	59		BERT -		
				0841	VK4KJL	59	59				
16/01/91	.110			2350	N6XQ	56	45		JACK - SAN DIEGO/DM12		
22/01/91	28.340	SSB	80	0821	G3RAC	59	57		PETER - 40m W LWN / 40m W / 3EL M3 -		
	545	"	"	0826	G3DHZ	55	55		BIRRY - SOUTH HAMPTON - KN 530 S - 2EL QQ - 15 PM		
	442			0846	G8MY	59	55		RON - FARNBOROUGH - 400 WATTS / 2 EL QQ		
	" (555)	"	"	0855	OH1MRR	55	55		SEPPO - (SW) FINLAND - (GXS) KANWOOD SW1/VT-88		
	555	"	"	0854	OT6MT	59	58		FERNAND / GHENT, BELGIUM - (ON6MT) -		
23/01/91	50.109	"	"	0600	ZL3TIC	56	56		MIKE -		
24/01/91	28.433	"	"	1753	CU2DG	55	52		ORLANDO - AZORES - 222 ANC 17.W / 40m - GB3SX / 215 - GB3RAL	X	
					(VK1 XX - REGIONS BIS EUROPEAN OPEN)						
	50.109	"	"	2322	VK2ZGE	59	59		BOB R24F 449 / 449 UWG		
25/01/91					1				BUZAL POB 8.-30, TAIPEI, TW		
X	28.482	"	80	2214	T31KY	59	59		KYIOTA (2300 12 MGTM)	X	
G.WE	00//27/01/91	TO	03/01/01/91								
03 04/02/91	28.844	"	80	0316	NI5E / KM6	59		0403	SIKL /		
				0346	K6BN	59			VICTOR - (N7UOL) (KG6DX - JOEL)		
	29.439	FM	80	0429	SP4LVG	59			WOJTEK - WOJTEK - NE POLAND - BIALYSTOK		
	- 350	"	80	0940	RA3DOX	59			SERGE - MOSCOW -		
05/02/91	50.110	CW	80	2325	N6XQ	559	449		JACK - SAN DIEGO		
/	.120	SSB	80	0629	VK4YQS	58	58		DOUG - LONG HAUL - 09GW /		
	.118	SSB	80	0838	JH1WHS	55	55		YUTAKE - 96 - NR TOKYO		
				0842	JA1RJN	59	59		KAZU -		
				0849	JJ1TZK	57	55		KAZU -		
				0850	JE2DWZ	55	55		YOSHE - PM85		

(8 MTS)

GZ, OH, LA, SM → 09GW →

RF65

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH NAME QSL VIA	QSL S	QSL R
06/02/91	50.118	SSD	80	0851	JE3TJS	57	57		Tose - IC470H		
				0852	JJ3WXG	59	57		- PM04	X	
				0853	JI7NQW	55	55		Hiro - QM08		
				0855	JE1HLR	57	55		Sei - PM95		
				0856	JH1BLX	56	58		Kei - "		
				0857	JN1JIV	55	57		Kei - PM95		
				0857	JA1KTZ	56	56		- PM95		
				0859	VK7IK	52	52		=	X	X
				0859	JA1JRK	58	57		Leo -		
				0900	JG1LKO	56	56		Hiko =		
				0901	JE1BMJ	55	59		Ha - QM09		
				0902	JE1BKU	55	55		-		
				0903	JS1GEH	55	55		Joe -	(G6)+(VK7)	
				1006	WA6EMN/KH6	55	53		Ken/Mimi - BL10 (ZL1NFJ)		
				1009	ZL1NFJ	33	41		Reic - RF96		
	28.885			2327	VK4BRG	59			Ron -		
X 08/02/91	28.445			0423	GM0JNB	44	44/54		Bill - Glasgow, Scotland 50 W 033 / 2 EZ 00 - North Pole -	X	
	28.497			2101	CU2AK	57	57		(Azores)	A	
				2249	NG4Q	57	57		Jack / -		
				2255	K6STI	57	44		Brian -		
	28.884			2300	ZL2CD	55	55		Bill -		
09/02/91				0635	JA7WSZ	56	56		Kou - QM07		
				"	JA0RUG	59	59		Tosh - QM97		
				"	JA9BOH	59	57		Kimo - PM86		
					JE1TGN	59	59			X	

RF 65

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS (QTH / NAME / QSL VIA)	QSL S	QSL R
					JHØ						
				0639	JG1 EIF	57	59				
				0640	JHØ HQP	57	59		-		
				0640	JJ1 NLR	57	59		PM96		
				0641	JG1 SFF	57	57				
				0642	JI1 NJC	57	57		QM06		
				0642	JJ1 AEB	57	57				
				0643	JF1 BMN	57	59				
				0643	JHØ H 20	57	57				
				0644	JJ1 NNJ/4	56	55				
				0644	JA5 GIN/4	55	55				
				0645	JA 2DDN	55	55				
				0646	JA1 VOK	59	59		Hatsuo -		
	28.895			0755	NIGE/KH6	33					
	"			0758	JA8RC	55	55				
09/02/91				2153	VK4KCM	59	59		Bob		
	50.110			2233	XE1GE	55	55	(QSN 2249-57)	Jeff - Cuernavaca ↩	X	
				2249	XE1IK	33	33		Hugo - (XE1DDD) - VE7AFL-SWLing		
				2256	ZL1NFJ	52	—		Paul - RFGM Pukekohe		
10/02/91	28.880	SSB	80	2225	NIGE/KH6	52			-		
		SSB	80	0335	NIGE/KH6	44	44		-	X	X
	50.100			0352	JE2IIH	56	57		Yes - PM86 -	N	
				0357	JR2HCB	57	57		Hiro -		
				0358	JRØ PFP	55	57		Aki - PM97	K	
				0359	JA2 BNV	57	57		Ken =		

RFG5

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/02/91	5U			0401	JA5CFO	~~55~~	55		—		
				0402	JHØ PWF	55	55		ICHINOMIYA PM87 KUNIO OKADA	X	
					~~OPA~~						
				0403	JI3 OPA	55	57		— PM74		
				0403	JA3EGE	57	57		KOW —		
				0404	JR3 ~~HED~~	57			JUN —		
				0405	JF2AIA	55	55				
					~~JA4~~						
				0406	JG3KUT	~~55~~	57		PM74		
				0407	JH2NZM	57	55			K	
				0407	JH6AVS/2	56	55		PM85		
				0408	JA2GHJ	57	57				
				0409	JL2ONQ	56	56				
				0410	JR4 ISF	55	57				
				0411	JA5EMM	56	57		— PM60		
					~~JF3~~ ~~JA5~~ DRI	57	55				
				0412	JA9SSB	58	59				
				0413	JA5SQH	57	57		— PM74		
				0413	JH2 ~~I~~ OZ	56	55				
				0414	JA2JW	57	57		YO —		
				0414	JA2 ~~W~~ FH	57	57		—		
				0415	JA2 GVW	56	55				
				0416	~~JJ~~ ~~3~~ INK	56	57				
				0417	JR3W ~~I~~ O	55	55				
				0417	JR3 ~~W~~ LC	~~59~~	59				

RF65

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/02/91				0418	JA5CMO	55	55				
				0419	JE2DTL	56	55			X	
					JA4WKE	56	55				
					- JA2MJO	56	59		PM 85		
				0419	JA2DDN	58	59				
				0421	JJ2MWV	56	55				
					JF2KOZ	58	59				
					JF8GPS	55	59				
					JR3DVL	57	59				
					JJ2VPY	44	55				
				0423	JR5DPV	44	59				
				0424	J--KIV				0356-0424 (35 #)		
	.885			0427	NI6E				2400 ↗ (2 SUM 2) NUMBER F2 BIG -		
	.			0447	ZL2TPY	42	43		THIS/2C VERY CONFUSION KHKD → 0430 (45 240) →		
				0527	JI1ETO/7	55	55		17 OR HL2? —		
					VK2BSD						
				0614	ZL2TPY	57	54	0632			
				0705	JA6TEW	56	58		MASA — PM53iT		
				0710	JE6JYT	58	59		KEY (G1H) — PM42		
				0706	JA6RJK	59	59		SAT — FK8 EB PM53 (OW+OZ - 3 [illegible])		
				0713	VK9YQS	59	59		DOUG — LORD HOWE (VK30T)		
				0716	VK2ZGE	59	59				
				0817	DK2EG				JN[illegible] DK2EG		
				0924	VK4ZA2	59	59		CONRAD PLUS — BRISBANE —		
*	.570			1005	UH8ABD	58	56		ALEX ASHKHABAD		
				1017	VK4ZNC	59	58		NEW — HEARD 48.25 LOOK MORE		

5 GP

2L2ZC 10 WATTS/100 LOOPS 3 ELM — PM42, PM7 THIS AM F2UF FAIR X

X

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	QTH / NAME / QSL VIA / COMMENTS	QSL S	QSL R
11/02/91	50.110	CW	50	0620	NIGE/KH6	559	559		(0821) -105 -VY STRONG QSB		
	28.885	SSB	50	0730	DK2EG	59	52	0750	Hrd 529 - 2L6AAA - (2L AAA) 2X — Joe	X	
12/02/91	.885	SSB	50	2105	VK4BRG	53	53				
13/02/91	" . 500?	SSB	50	0625	JH0BBE/JD1	59	59		OGASAWARA	X	
"	.885	SSB	50	0740	DK2EG	59	55		Joe / JN 59 - 53° // Will look 0830 0900 — NXT FEW evenings SUNRISE 17,700 KM —		
	"	"	50	0830	DK2EG	55	57		NO 50/		
	"	"	50	0900	DK2EG	55	57		— 0800 / TOMORROW —		
14/02/91	"	"	"	0805	G3HBR	55			BRIAN / (BRIAN 12TH -1140		
				0817	NIGE				0830 Fri / ON 12M - 1140 QTSA — LP		
				0839	DK2EG	57			Joe 45.250 — 10-15 MINS — (.105 CW)		
	.885	"	50	1935	WA5IMX	56			2K1CG - Hrd 07102 - 09/14/1984 FINLAND —		
				2029	~~ZL4A~~ VE3KKL	59			Geno -		
				2131	K1JRW				Ron - 0800 / 0800		
				2205	VE3KKL				Gord -		
				2110	WE4N				Ed - (HAM PK Gunpowder)		
				2114	W2TF				Sam - (W2ENY) ~~(W3BHT)~~		
				2117	W5GG	59+			Whit -		
				2121	W3XO/5	57			Bill -		
~~15/02/91~~				2114	KG9XY	59			Bob -		
				2117	NIGE	55			G2IBI 46.170 [VK. 46.170 0811		
16/02/91	.885			0500	DK2EG	52	22		Joe		
				0815	OH2TI	55	5		(Y) SWICKM 45.250 120M → OH8SIX /		
				0836	NIGE	22	42		- W7 HRD / LISTENING -110 - UL7GCC - ALMA (MATA) VIAG4JCC — XMTG .885 — 42°N / 78°E		
	.525?			1147	PT7BI	58	57	During	- SRO/SUN 120M	X	
				1203	ZP5XHM	55	55		Paraguay		
EA8	PJ2JG			1205	UG9GX2	56	55		215 YHX		

HA7TM 1484 QR

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	QTH / COMMENTS (NAME)	QSL VIA	QSL S	QSL R
16/02/[illegible]	28.524	SSB	80	1207	ON4FU	56	57		(Brasil DX net)	THA? DA	X	X
				1207	HA7TM	58	59		~~HE2CZW~~			
				1208	I2JSB	59	57		OD			
				1211	IW1KNQ	57	59		BTX			
				1212	I5VIT	55	55					
				1213	I8XTY	59	57		FDR			
				1215	EA3FDR	59	55					
				1217	IK7JTG	44	59		~~IK7JTG~~			
				1222	EA8BUC	44	55		+			
				1227	PY3IO	57	57		(ITM) BRK		X	
				1232	PA3FFS	57	55		LU			
				1233	F1CUN	56	56		~~PY2ESR~~		X	X
				1234	Y25TM	55	57		1500			
				1234	OZ7NJ	57	57		(YO0X) GW4 NXR			
				1239	IK4QFM	59	59		BETTE ~~[illegible]~~ OK4LM [illegible]			
				1242	FD[illegible]CN	55	55		~~IK1QFM~~ NJ (YT5FM)			
				1243	HE7AOW	59	57		(A?) OE QW			
				1244	EA5AT	57	55		PY2EM | PY3CM | PP5WZ			
QSL THE one				1247	EA8BUC	55	55		Buddy & W2QN		X	
				1250	SM5BRK	59	55		CW –			
				1251	OE5MJL	55	55		–			
				1251	F6AFU	57	57		SP6HRK			
				1252	FG1TM	55	55					
				1253	PA3ABH	56	57					
				1254	HE7C2W	55	55					

(29) (26)

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS (QTH JA7MVX / NAME / QSL VIA)	QSL S	QSL R
16/04/24	28.524	SSB	80	1255	EA1EVC	55	55				
				1257	IK0NEG	57	59		CCWIT		
				1258	RA9FF	57	57				
				1258	EA4BB	57	58				
				1259	UA3AB	59	59		FB		
				1301	DK3PZ	55	55		HK		
				1301	DJ2FB	59	58		DB		
				1302	OK2DB	55	57				
				1303	IK2EU4	57	58		U4		
				1304	JA7MVX	59	59		PA3DZN — — 2WBWM		34
				1315	PT7BI	55	55		— — [illegible] KM		
				1319	PA3DZN	59	55		— PY2DD / PT KM4RX		
					EA4CJO				IK / DN / LW / BR / ZN / LK /		
				1320	IK4YJQO	55	55		B		
				1321	DL1SDN	58	59		D2N		
				1321	IK8PLK	59	55				
				1321	DL6NBR	57	54				
				1321	DL3SBI	58	59				
				1322	IK4IEE	59	57				
				1323	OK1MP	59	59				
				1323	IK3PJY	59	59			X	
				1324	FB1[illegible]	44	55		NTR		
				1325	ONS NT	58	57				51
	.821	SSB	80	1935	WX4	59	59		Steve		
17/04/24	.400	SSB	80	0045	4KZ / UY3CC	59	59		Valerie 2MOS / [illegible] Jose - Zone 40	X	

(also 2C4.30) MMM3

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	QTH / NAME / QSL VIA	QSL S	QSL R
18/04/91	28.494?	SSB	80	1932	YT3CW	59	57		NW-YUGOS / Down / 30c		
	491			1937	CE3DPV	59	59		DAVID / CHILE - VT / → 31°	X	
	?			1945	IK2PTM	56	56		ALBERTO / ITALY - NR. MILANO IK2PTM		
		(14?? -		CQ on 50.110 - Response - VY Pleasant -					1550)		
	.498			2038	2K1XL	55	55		=	X	
	.385			2142	WØQiN	57	57		Paul =		
				2146	VK4BCG	59	59		Ron =		
				2148	W7IDZ	59	59		Russ - WIN - Dwight 59		
				2150	ZL2KJT	55	55		Rory - (2000-2100 ITMS 2132) 2K1 5 Degree		ZL2KJT
19/04/91	28.505	SSB	80	0007	ZL2DIT	57	53		Brian - CHUNCHAN fully WED EXC. GTI EUROP (on 6 Metres)	X	
					(High Solar Noise at 0008+)						
		"	80	0385	N1GE	52/9	52/9	0427	K3MLD FEB07 - 120° 46.250/260 - 1145-1155 4M4HT 46.172 → 1140-1145 XE1C1 49S = 3W3 - Lattice Beam - 47.90		
				2036	VE3KCL			2113	0820	X	
				2045	KA3B	55			Ant-Mast-Coax-Ground / Kings n ZSK		
					- Mast/Ant - 8/9 dump - CP6				TE END IW		
					(UK / Many Fri 24 - Sat 25 / Longson, UK - Suburbs of London				47.835 - Indy Ft Inv 4440 - IW - SAA / 0824 / BCN		
20/[illegible]/91	28.885	"	80	0518	N1GE / KA3			0533			
22/04/91	.478	"	80	2004	I8UDB	54 +20	59+		DOM / Napoli, ITALY / SA		
	.484		80	2025	EA8BTA	57	56		/ CUNGARY ISLES IK4JQO 504 & EA8 484 BTA		
23/02/91	.886?	"	80	0308	UL7GCC	42	51		MIKE /		
	.845 40	"	80	1530	VE3KCL	59	59		GUNS /		
	.850	"	"	1939	VE2DFO	59	59		DON - / MONTREAL -		
	"	"	"	1947	IK7ICW	57	57		AL /		
X	.488	"	"	2030	T30DX	59	59		NILDA /	X	

47.90
47.835
47.35 SA
45.85 "
40.25 "
45.03 MHz Mass. Propagation
45.? Calgary

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
23/02/91	50.110	CW	80	2147	VK2BSD	559	559				
				2154	VK2FLR	559	539		Mike – Sydney		
28/02/91	.885	SSB		2307	KA7WOZ	57	57		Richard –		
				2309	N7IFP	56	53		Phil – Me. –		
				2311	WA5:YX	57	/		1500 VOLTS VEL TEST 00302 / JA TO W5 Two Nights FM7 TOEZ Friday		
				2317	VK4BRG	59					
01/03/91	50.110	SSB		0324	JA7WSZ	53	52				
	.885			1910	K1JRW				(WA6BYA – BOB MARCA –)		
				1910	W3XU						
				1915	AH6ICY	59			AL/ANN – (ZL1AHB 406-0254 AH6ICY – (.387 – 02W) Brian Armstrong) (696-4186)		X
				1946	K7ICW						
	50.110			2251	KG6HHJ	55	53		Lorrie – DM04 – (nearest 24Th)		
				2253	KG6ZK	33	33		"		
				2256	K6CH	33	53		–		
				2257	WG6XN	57	58		Roy –		
				2257	WA7CJO	58	57		JDM Glen – Phx DM33		
				2300	WA7RAJ	53	53		Catherine – DM33		
				2303	K6GMV	55	54		George – DM14		
				2332	K6QX4	59	59		BOB –		
	.103			2336	WG6XN	59	59		Roy – OXN AMS –		
				2343	WA6BYA	59	59		Robert – Santa Cruz –	X	
				2346	K6HHJ	59	59		–		
				2348	K6GMV	57	57		– Claremont		
				2349	WG6JR	59	59		Ron – DM14		

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
01/03/91	.103	SSB	80	2350	KG5JZ/K	57			DUFFY - DM03 -		
02/03/91	.110	"	80	0025	KG[illegible]XY	59			BOB		
				0025	WA6B[illegible]A	59			CAM 87 - BOB		16
	.110	"	80	0327	JA8RC	59	59		NOB[illegible] - QF		
		"	"	0329	JR8WW2	59			HIRO - QN03		
				0330	JA8TSG	59	59		IKEN -		
				0331	JA8WQI	59	59		TOH - QN29		
				0332	JA8CF	59	59		HUAN -		
				0333	JA8TR	59	59		IKEN - QN02		
				0334	JA8CLN	59	59		-		
				0334	JA8QY	59	59		QN64		
				0335	JA8MER	59	59				
					JR8FVQ	59	59		a 8[illegible]5G		
				0336	JI8LCV	59	59		- QN03		
				0336	JA8NBE	59	59		- QN13		
				0337	JR1VDB	55	55		-		
				0337	JH7UPW	55	57		- QM09		
				0408	JA7MIT	59	55		TAKA - QM08		
				0410	JA8BP	55	57		-		
				0411	JA8RRD	56	58		YASU - QN23		
				0412	JR1MFD	56	58		- [illegible] QM96		
				0414	JA8XDN	57	57		ah -		19
	28 .485			0730	EA6WV	57	57			A	
	"			0731	DL6[illegible]AU	59	58		CARSTEN		
	"			0734	SM6AWW	58	53		CHRIS - 720A / BAD 781 / - WILSON 10 el. MITSUBISHI		

DATE	FREQ.	MODE	POWER
03/91	28 .485	SSB	80

TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME	QSL S	QSL R
0747	I1HYW	57	55		JOHN — TURIN		
0753	I1ZPK	55	55				
"	I2YDX	55	33				
54	I1POR	53	55				
55	UA4PK	55	55				
56	IK1AVW	55	55		1PJO		
"	IK1GPG	33	54				
57	JM1PJO	59+20	59+		ALSO		
59	I2MWZ	55	33				
0800	IK1JJB	53	33				
0808	GØCGL	53	33				
0803	I1MRH	55	57				
0803	I2PHN	53	33				
0804	G3PJT	53	53				
0806	UA4CC	33	33				
0808	JA8RY	57	57				
0809	JA6PJ	59	59				
0810	JR2VLS/7	57	59				
0811	JA2KLE	59	59				
0811	JA2EWF	59	59				
0811	JA1DKN	58	58				
0812	JM1IXW	59	59		sei		
0812	JA1KYM	59	59				
"	JL2RXH	59	59				
"	JH6CDI	59	59				

I1ZPK / I2YDX / I1POR
UA4PK

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH	NAME	QSL VIA	QSL S	QSL R
				0813	JA7EYK	59	59						
				0813	JAØWIU	59	59						
					JA1QCA	59	59						
					JE7PIH	59	59						
					JAØURR	59	59						
					JA6SIH	59	58						
				0817	JF7GJK	59	59						
					JA4 EPE	59	59						
					JA1KNY	59	59						
				"	JJ1WKX	59	59						
					JA1 FYS	59	59						
					JAØ ESG	59	59						
				0819	JR3 RRY	59	59						
					JA2FBY	59	59		Hiro				
					JE6 DXY	59	59						
				0820	JA1D ZC/3	59	59						
					JA1 DIO	59	59						
					JE2 IUG	59	"						
					JF1XOL/3	59	59						
					JEØ FAM	59	59						
					JE4 WOK	59	59						
					DL7 HU	59	55						
					JE4XYA	59	57						
				0824	JE2 EDQ	57	59						
					JF4MIH	56	59		/QRP				

DJ9 HD 57

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
02/03	.488	SSB	80	0825	JR6 KXC	59	59				
				"26	JF6FFS	57	59				
				"26	JA 4ESR	57	58				
				"27	JA6 BBi	57	59				
				"27	JR1 BVU	57	57				
				"27	JA7KOJ	57	57				
				" "	JL1 EDB	57	57				
				"29	JH3 LIB	57	57				
				"29	JA4 DBWZ/2	57	55				
				"30	JH4 SPH	57	57				59/ 22 MIN
03/03/91	28.110	SSB	80	2216	NL7OW	53	53		BP 41 (1990 CALL BOOK)	X	
				2229	NG6 G	539	539		JACK		
				2230	K6STI	339	239		BRIAN		
				2239	KG6XY	52	53		BOB		
				2341	AH6Q/MM	59	54		55 RM68	X	
04/03/91	.885	SSB	80	0712	N1GE/1G46	55					
				0718	024VV	57	56		FINN -		
				1950	N1GE/KH6						
*	28.517			2118	CP1VK	55	55		JOHN - BOLIVIA	X	
				2230	KØKKO	59	59		-		
				2232	VK7IK	59	59		MOSS -		
				2240	K1JRW	59	59		RICK -		
				2248	VE3KCL	59	57				
05/03/91	.885	SSB	80	0415	WA6BYA	59			(VANNI - TED ZL4DX -) 4 MORE DAYS		
	"	"	"	0510	N1GE	56					

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
05/03/91	.885	SSB	80	1220	PAØEMI	57	57		PETER		
				1225	G4WPS	55	55		TED	X	
	50.107	CW	80	2246	KL7Y	559	559		ROGI DAN	X	
				2242	KG6QXY	55	55		JA 8 TSGI		
06/03/91	28.885	SSB	80	0150	W5NZS	57	57		LARRY – OKC 41.975		
	"	"	"	0155	ZL1ANJ						
	50.105			2105	KG5SS	53	22				
	.108			2218	NGCA	339	419				
	.105			2221	WA7CJO	55N					
07/03/91	.885	SSB	80	0115	K4CLCS	57	57		AL –		
	50.120	"		0234	JA7WSZ	55	51		KOU HAD ZL4TPY 0248 | 9H1 BEAMING ZL – EUROPEAN JONES | 49.258		
	.110	"	"	2253	NL7UW	52	51		BP41 – TOM		
	.106	"	"	2318	KL7Y	57	57		DAD – 4CL – 230' ABOVE SEA LVL – CLEARING SOUTH, JA		
* 08/03/91	.885	"	"	2018	VP9CEN	59	54		JOHN .110 – / CAN ON 0120 1600 – ON 03WZ	X	
	.890	"	"	2023	L43EX	55			ACKNOWLEDGED – 3X –	X	
	.110	CW	80	2043	ZL1ANJ	55N	52N				
	.110	SSB	"	2127	KG6QXY	59	59				
09/03/91	.885	"	"	0010	VK4BRG	55					
	.885	"	"	0020	NI6E	52					
	"	"	"	0030	KG6QXY	55					
				0046	VK4AND	55					
				0050	VK4BRG	59					
				0119	V73AT	56 229	56 439		BRING 155° / RJ38		
	.885	"	80	0130	W7YQZ	59	59				
	.885	"	"	0354	JA8RC	59	59				
	"	"	"	0400	KG6DX	59	59		JOEL (22WPK / 402IS		

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
09/03/81	.110	CW	80	1242	VK4APG (CK)	55N	529		DG8/.120 QSL		
	.888			1300	IK2GSU				-		
	.884			1337	IK1EGC				-		
	50. 110			2124	WA7JTM	33N	53N				
				2128	KG6JI	57N	56N		(HAT/JA1VNK)		
				2143	V73AT	55	55		TIM o/- K2CL		
				2152	AA6[redacted] (CT)	44N	55N				
				2223	VK4BRG	55	57				
				2224	NL7UW	55	55		BP41 TOM		
				2225	KL7IKV	42	41		870637	X	
				2235	ZL3NE	41	52		BOB - AUCKLAND RF63		
				2238	ZL1ADP	42	54		FRED - GREAT BARRIER Is. RM 73 (1300Z TO VP8)		
				2242	V73AT	55	55		o/o K2CL -	X	
				2332	KG6DX	579	589			X	
				2337	JR7SIF	5NN	5NN				
				2340	KL7Y	57	57		- DAN -		
				2353	8J8WLS	59	59		SAPPORO, JAPAN - SPEC. EVENT STATION - KO4 -		
10/03/81	28.885			0120	VS6WU	59	59		MIKE 040W/410 / 07W/910 - .085	X	X
	50.139?			0250	JP1LRT/6	55	55		PM52 - (1630 - DG8) 119		
	28 886			0814	WE3Y	57	55		CARL		
				0814	KA3Y[redacted]T	55	55		PAUL		
	28.885			1935	V73AT	59	59				
				1945	ZL1AWS	57	57		MURRAY		
				1955	3D2PO	59	59		JIM	X	
	50.110	SSB	80	2053	WA7VHW	57	57		WN DNU7 DUN		

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
10/8/91	.110	SSB	80	2054	W7WKR	55	58		DE CN87 SEATTLE-		
					~~KC7FKV~~	56					
	101	CW		2108	W7FI	55N	55N				
	↓			2109	W7FN	57N	57N		CN88		
				2111	WA7HEE	55N	55N		CN86		
					KC7KV	549	57N				
					WM7A	569	55N				
		↓			KC7KV	59	59				
	117	SSB		21	KC7EY	57	55		CN89		
	↓	↓		2115	K7KV	59	57				
				2116	WM7A	56	56		JIM		
					W7ZTT	57	59		CN87 Chuck		
				27	W7FIV	57	55		CN88		
				2118	N7CFO	55	54		CN87		
					WA7OEU	56	57		CN87	X	
					W7LFB	56	55		CN88 - [redacted]		
					KA7TS	54	53		CN87		
					W7IBO	559	55		CN89		
				2124	WB7AJP	55	54		AL CN87		
				2122	W7FN	56	56		DON-		
				2135	NL7OW	59	59		TOM- (TU 125)		
				2144	W7POE	329	319		TU 559 / CN86-		
	101	CW		2152	K7RWT	429	319		CN85 OREGON- (K7RWT)		
	↓			2204	N7DB	319	31N		CN85+?		
	101	"		2223	KL7IKV	519	519			X	
	88T	SSB		2229	N7DB	55	58				

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
10/03/91	50.110	CW		2239	JA9UGE	55N	55N		Ken		
				2240	JA9BSZ	55	55				
				2241	JH0INJ	55	55				
				2242	JE1RKX	5NN	5NN				
		SSB		47	JA0MVW	59	57		PM97 Ken		
				48	JH1BLX	59	59		Keiji - P		
					JH7MSB	57	57				
					JH0WJW	59	59		Kato - PM97	K	
				49	JH7UPW	57	59				
				50	JI3SOK/1	55	57		Keio - QM06		
				2309	NL7OW						
	0110	SSB	80	2313	V73AT	55	55				
	.110	SSB	80	2314	AL7C	41	51		BP51		
				2316	ZL1UFJ	55	55		Jenny -		
				2339	JA8RC	59	59		NOB		
11/03/91	57.110	CW		0200	V73AT	559	559				
X	28.505	SSB	80	1950	GD4PTV	57	53		BRIAN - 350W (ZL1 DON BWM)	X	
X	.505	SSB	80	1957	G1GS	58	56		George	X	
	.518	SSB	80	2000	G4OBB	57	57		Des OXFORD -		
	.529	"	"	2003	KB2HUW	59	59		WILL - ALBANY, NY FT301/5CL HYGAIN		
X	.885	"	"	2010	ZB2BL	55	55		PAUL - (100 OR 125) (MARK / NEW AMSTRAD 6 / 5 CL YAGI) (200W / 2 EL)	X	
	.885	"	80	2318	ZL2CD	55	55		ZB0W / ZB0T		
	885		"	2315	N4RFN	59	59		RICH - TAMPA, FLA. 100W/4CL 10		
12/03/91	.110	"	80	0037	NL7OW	55	55		JUM		
	.885	"	80	0330	VK3OT	59	59				

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
	28,805	SSB	~~SSB~~	2046	VK7IK	57	57		Musk		
	.885			2338	N5JHV				(OH6NJ)		
	"			"	NI6E						
* 16/03/81	28487	SSB	80	0714	OH6NJ	59+20	59		ENINAR 46.24W – 3W Kon S VIC20	A	
	.307	SSB	80	2010	A92FP	48	43		W4NIX - Amer Hosp. - Condolences	Y	
17/03/81	.885	"	80	1949	CN3ST	55	56		Reni	Y	
18/03/81	.815	"	"	0325	V73AT	57	57		JIM – P.O. Box 338, APO SF 96555		
				0415	~~KH~~6GGJ	59	59		John		
19/03/81	.110	CW	"	0905	JG6CVU	589	559		VK4DZ - Ann Rose – IC730 981.		
				0910	ZL2IKT	52					
	.885	SSB		0912	PA3EWI	53			Peter		
	.105	CW		0916	JK6MXQ	33					
	105	CW		0952	JE2DTL/	52N	579				
	100	CW		0955	JG2[illegible]BRI	52N	559		Mitsa		
	|	|		0958	JF3GPS	52N	53N		aKi		
				1000	JG3RGG	52N	55N		HiRO		
				1003	JN1QCV	52N	52N				
				1005	JA2KTH	54N	55N				
	.110			1029	JAGLLA	529	579				
	↓	↓		1030	JE6OKI	579	53N			V	
				1034	JG1IEF	579	51N				
20/03/81	.110	SSB	80	2010	KP2A	59	59		John – Virgin Islands		
				2012	KBPBJ	59	59		Lee - California CM87		
				2014	KG6GMV	59	59		- Clarence		
				2015	KG6HJ	59	59		-		

RFC

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
20/03/91	50.106	SSB	80	2016	N6AMG	59	59		Ivel -		
				2017	KG6ZIC	57	56		Duffy - DM03		
				2019	IC60DV	59	57		ED - DM13		
				2020	IC6STI	58	57		-		
				2027	KG6QXY	59	59		(YK2QF - Nev.)		
21/03/91	.110	CW	80	0014	JA4MBM	5NN	5NN		IK1LWT .157		
				0019	JH4MGU	53N	55N				
* 21/03/91	28.524	SSB	80	0755	JT1KAI	57	59		PO Box 676, Ulan Bator, Mongolia	Y	
	50.101	CW	80	2228	W7CI	55N	55N				
22/03/91	.110	SSB	80	0502	JH7MIC	59	59		MINA - QM09		
	.115	"	"	0504	JA6GPT	58	59		Kazu - PM96		
	28.496	"	80	1232	DL4XX	57	53		Andy 4elCC/wm/500W - Beam	520°	
	50.110	CW	80	2015	NGXQ	579	599		Jack		
	.105	CW	80	2405	KGCH	319	569		DM13		
23/03/91	.110	SSB	80	0314	3D2PO	59	59		Ian		
* 23/03/91	29.485	"	80	0925	RI6B	57	59		Paul - 053 (UB) - UA3IT (fb)	X	
	.511	"	"	1254	UI8ZAC	57	55		Klim -	X	
	511	"	"	1258	UA6LQ2	59	59		Tole -		
	"	"	"	1300	UB4UJJ	55	57		Alex - 30 W/ dipole -		
	"	"	"	1302	UB4WKA	57	57		Miro -		
	"	"	"	1303	IT9HLR	57	59		Salvo -		
				1305	OE2MON	58	56		Carl - Salzburg 4UGITU		
				1306	DK6JV	59	57		Harry -		
				1307	DF2UB	57	57		Bodo -		
	28.885	"	80	2020	YK4BRG	59	59		Ron		

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
25/02/91	.110	CW	80	0544	JR8MCR	57N	59N		SAIKA		
				0548	JF6UMR/8	57N	59N		OITA CQWO2		
				0552	JA8OW	59N	59N		KEN		
				0555	JA9IPF	55N	55N				
				0712	JA8XDN	55N	53N				
	.116	SSB	80	0859	A35EM	55	55		JA1OEM		
	10/5	"	"	1949	W6SFJ	56	57		DM12 - PAUL - SAN DIEGO		
	"	"	"	1950	W6RCW	31	55		-		
	"	"	"	1952	W6UXN	59	59		ROY - 10"		
	.885	"	"	1959	3D2PO	59	59				
	"	"	"	2002	W7CI	59	59				
	.10/5	"	"	2050	N6AJ	59	59		DM06 - JERRY - 8TH R - CLOVIS		
	"	"	"	2053	K6JZK	55	55		PETE - CYPRESS -		
				2055	K6HHJ	56	56		LARRY -		
				2055	K6GMV	55	56		"		
				2057	W6BJI	59	59		GIB - FRESNO - 60X 85TH FRESNO - GOD SAVE WAS		
				2102	K6UDY	59	59		-		
				2129	W5FF	57N	55N		FRED NEW MEXICO	X	X
				2135	N5JHV	55N	52N		DM62		
				2207	FM5WD	59			FK94 - LUCIEN		
				(2207)	W5FF	59					
				2212	WA7FPO	57	59		DM34		
				2213	K6FV	529	55		VICTOR		
				2217	K6UWD	55	55				
				2219	AA6SB	55	59		DM06 13TH		

12/12/90

Antennas

1) Ant Towers on posts
2) Ant. Switch
3) PL259's
4) Alligator clips
5)

DXCC List - To File
Make up Coax Jumpers

Manuals P.O
Don't Need

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
25-03/91	0115	SSB	80	2220	WGPO	56	56		Bob —		
				2221	K6STI	57	37				
				2222	WGAY	57	55		CM87		
				2225	N6ZGU	55	55		DM		
	.110	CW	80	2300	JA4LSQ	55N	55N				
	115	"	"	2302	JH0RNN	59N	59N		PM97		
		SSB	80	2305	JA4LSQ	55	55		QM		
				2307	WA6BMA	57	59				
				2309	JA9IHI	59	59		SHIN PM86		
				2311	KI6CG	55	59		CM96 —		
				2311	JA9BHZ	58	59		K PM86		
				2312	JH6RNN	59 30	59		HIRO PM97		
				2313	JH7MQU	59	59		YOSHI — QM07		
				2317	WA7CJO	55	55		A3		
				2320	K6CQR	57	57		CM99 — ED —		
				2321	JA8ICS2	59 +20	59 +20		HYDE — QN22		
				2322	K6QXY	59 20	59 20				
26/03/91	28.885	SSB	80	0012	KG6UH/DU1	59	59		LOUIE		
	"			0013	VK4BRS	59	59				
	50.110	CW	80	0054	K6STI	579	579				
	"	"	"	0100	WA6JRA	52N	59N		QSB — SAM		
		SSB	"	0115	N6CW	59	59		TERRY DM12		
		"	"	0115	K6STI	59	59				
	.110	CW	80	2102	KP2A	55N	55N		JOHN		
				2106	W5QZI	33N	29N		JOHN — TEXAS	X	

6 METER Beam – 3EL – TUNE 07/12/90 1312 NZT

.100 – 60 | 6	100+ 20+	22 | 3	38 | 04	
.400 – 80 | 10	100+ | 18	38 | 4	46 | 06	
.200 – 43 | 04	100+ | 10	22 | 2+	32 | 2+	
MID	LONG	SHORT	MID/SHORT	

2) ADD QTR" ~~SS~~ TO BOTH ENDS all elements

3) ADD 2ND QTR" 4) ADJUST GAMMA – Shorten → (MID) → Longer

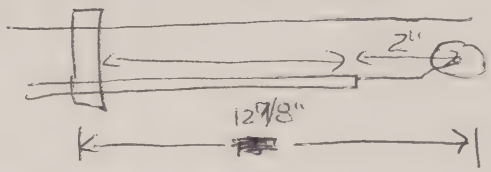
.100 – 32 | 2–	34 | 1+	24 | 1–	44 | 1+	100 | 2		
.200 – 38 | 2+	30 | 42–	23 | 1	40 | Barely	100(+) | 4		
.200 – 28 | 1+	28 | Barely	22 | 1–	35 | Nudge	70 | Barely		
.300 – 27 | 1–	28 | Barely	23 | Barely	33 | Barely	54 | Barely		
				Longest	Extra Longs	
					100 | 6	
					100 | 8	
					100 | 4	
					90 | 3	

Split Extra | # Longs	Split MID | # Longest
.100 – 100 | 3	60 | 1–
.200 – 100 | 5	60 | 2+
.200 – 93 | 1+	46+ | Nudge
.300 – 66 | 1–	41 | Nudge

FINAL // Longest

50.000 – 100(+) | 3(+)		5/0110 – 88/23
.100 – 94 | 1(+)		
.200 – 65 | Nudge		32.110 – 20/10
.300 – 51 | Nudge		50.110 – 90+ | 1+

DIMENSIONS



12 7/8 x 2

10 METER – 3EL – TUNE 07/12/90 – 1927 NZT Loose Screw

STOCK		SHORTENED BAR Gamma #2		ORIG Ref	Lengthen Gamma ONLY #A	LONGER B
28.300	40 | 4+	72 | 5+	58 | 6	63 | 6	72 | 5–	82 | 4+
.400	86 | 6	72 | 6	58 | 8	66 | 6+	76 | 6	83 | 6
.500	95 | 7+ (~~8+~~)	~~78~~ | 8	64 | 10	72 | 8	80 | 8	88 | 8
.600	100+ | 9+	84 | 10	70 | 12	80 | 10+	90 | 10+	98 | 10
.700	100+ | 10+	94 | 14	80 | 15	92 | 14	100+ | 14	100+ | 14
			Lengthen Bar Gamma			

LONGER C	LONGER D	LONGER E	LONGER F	LONGER G	LONGER H
.300 – 90 | 4	100 | 3+	100 | 2+	100 | 2–	100 | 1–	100 – Nudge
.400 – 92 | 6	100 | 4+	100 | 4	100 | 3–	100 | 2–	100 | 2–
.500 – 99 | 8	100 | 6+	100 | 6	100 | 5	100 | 4	100 | 4
.600 – 100+ | 10 ATTN	100 | 9	100 | 8+	100 | 8	100 | 8–	100 | ~~8~~ 7
.700 – 100+ | 14+	100 | 12+	100 | 12	100 | 12	100 | 12–	100 | 12–
	Redraw Flight				
.300 – 100 | 1	100 | Nudge				
.400 – 100+ | 2	100+ | 2				
.500 – 100+ | 4–	100 | 4				
.600 – 100 | 6+	100 | 7				
.700 – 100 | 12–	100 | 12–				

LONGER I

Allocation of International Call Signs

Call Sign Series	*Allocated to*
AAA-ALZ	United States of America
AMA-AOZ	Spain
APA-ASZ	Pakistan
ATA-AWZ	India
AXA-AXZ	Australia
AYA-AZZ	Argentina
A2A-A2Z	Botswana
A3A-A3Z	Tonga
A4A-A4Z	Oman
A5A-A5Z	Bhutan
A6A-A6Z	United Arab Emirates
A7A-A7Z	Qatar
A8A-A8Z	Liberia
A9A-A9Z	Bahrain
BAA-BZZ	China
CAA-CEZ	Chile
CFA-CKZ	Canada
CLA-CMZ	Cuba
CNA-CNZ	Morocco
COA-COZ	Cuba
CPA-CPZ	Bolivia
CQA-CUZ	Portugal
CVA-CXZ	Uruguay
CYA-CZZ	Canada
C2A-C2Z	Nauru
C3A-C3Z	Andorra
C4A-C4Z	Cyprus
C5A-C5Z	Gambia
C6A-C6Z	Bahamas
C7A-C7Z*	World Meteorological Organization
C8A-C9Z	Mozambique
DAA-DRZ	Federal Republic of Germany
DSA-DTZ	Republic of Korea
DUA-DZZ	Philippines
D2A-D3Z	Angola
D4A-D4Z	Cape Verde
D5A-D5Z	Liberia
D6A-D6Z	Comoros
D7A-D9Z	Republic of Korea
EAA-EHZ	Spain
EIA-EJZ	Ireland
EKA-EKZ	Union of Soviet Socialist Republics
ELA-ELZ	Liberia
EMA-EOZ	Union of Soviet Socialist Republics
EPA-EQZ	Iran
ERA-ESZ	Union of Soviet Socialist Republics
ETA-ETZ	Ethiopia
EUA-EWZ	Byelorussian Soviet Socialist Republic
EXA-EZZ	Union of Soviet Socialist Republics
FAA-FZZ	France
GAA-GZZ	United Kingdom of Great Britain and Northern Ireland
HAA-HAZ	Hungary
HBA-HBZ	Switzerland
HCA-HDZ	Ecuador
HEA-HEZ	Switzerland
HFA-HFZ	Poland
HGA-HGZ	Hungary
HHA-HHZ	Haiti
HIA-HIZ	Dominican Republic
HJA-HKZ	Colombia
HLA-HLZ	Republic of Korea
HMA-HMZ	Democratic People's Republic of Korea
HNA-HNZ	Iraq
HOA-HPZ	Panama
HQA-HRZ	Honduras
HSA-HSZ	Thailand
HTA-HTZ	Nicaragua
HUA-HUZ	El Salvador
HVA-HVZ	Vatican City
HWA-HYZ	France
HZA-HZZ	Saudi Arabia
H2A-H2Z	Cyprus
H3A-H3Z	Panama
H4A-H4Z	Solomon Islands
H6A-H7Z	Nicaragua
H8A-H9Z	Panama
IAA-IZZ	Italy
JAA-JSZ	Japan
JTA-JVZ	Mongolian People's Republic
JWA-JXZ	Norway
JYA-JYZ	Jordan
JZA-JZZ	Indonesia
J2A-J2Z	Djibouti
J3A-J3Z	Grenada
J4A-J4Z	Greece
J5A-J5Z	Guinea-Bissau
J6A-J6Z	Saint Lucia
J7A-J7Z	Dominica
J8A-J8Z	St. Vincent and the Grenadines
KAA-KZZ	United States of America
LAA-LNZ	Norway
LOA-LWZ	Argentina
LXA-LXZ	Luxembourg
LYA-LYZ	Union of Soviet Socialist Republics
LZA-LZZ	Bulgaria
L2A-L9Z	Argentina
MAA-MZZ	United Kingdom of Great Britain and Northern Ireland
NAA-NZZ	United States of America
OAA-OCZ	Peru
ODA-ODZ	Lebanon
OEA-OEZ	Austria
OFA-OJZ	Finland
OKA-OMZ	Czechoslovakia
ONA-OTZ	Belgium
OUA-OZZ	Denmark
PAA-PIZ	Netherlands
PJA-PJZ	Netherlands Antilles
PKA-POZ	Indonesia
PPA-PYZ	Brazil
PZA-PZZ	Suriname
P2A-P2Z	Papua New Guinea
P3A-P3Z	Cyprus
P4A-P4Z	Aruba
P5A-P9Z	Democratic People's Republic of Korea
QAA-QZZ	(Service abbreviations)
RAA-RZZ	Union of Soviet Socialist Republics
SAA-SMZ	Sweden
SNA-SRZ	Poland
SSA-SSM	Egypt
SSN-STZ	Sudan
SUA-SUZ	Egypt
SVA-SZZ	Greece
S2A-S3Z	Bangladesh
S6A-S6Z	Singapore
S7A-S7Z	Seychelles
S9A-S9Z	Sao Tome and Principe
TAA-TCZ	Turkey
TDA-TDZ	Guatemala
TEA-TEZ	Costa Rica
TFA-TFZ	Iceland
TGA-TGZ	Guatemala
THA-THZ	France
TIA-TIZ	Costa Rica
TJA-TJZ	Cameroon
TKA-TKZ	France
TLA-TLZ	Central African Republic
TMA-TMZ	France
TNA-TNZ	Congo
TOA-TQZ	France
TRA-TRZ	Gabon
TSA-TSZ	Tunisia
TTA-TTZ	Chad
TUA-TUZ	Ivory Coast
TVA-TXZ	France
TYA-TYZ	Benin
TZA-TZZ	Mali
T2A-T2Z	Tuvalu
T3A-T3Z	Kiribati
T4A-T4Z	Cuba
T5A-T5Z	Somalia
T6A-T6Z	Afghanistan
T7A-T7Z	San Marino
UAA-UQZ	Union of Soviet Socialist Republics
URA-UTZ	Ukrainian Soviet Socialist Republic
UUA-UZZ	Union of Soviet Socialist Republics
VAA-VGZ	Canada
VHA-VNZ	Australia
VOA-VOZ	Canada
VPA-VSZ	United Kingdom of Great Britain and Northern Ireland
VTA-VWZ	India
VXA-VYZ	Canada
VZA-VZZ	Australia
V2A-V2Z	Antigua and Barbuda
V3A-V3Z	Belize
V4A-V4Z	St. Christopher and Nevis
V6A-V6Z	Micronesia
V7A-V7Z	Marshall Islands
V8A-V8Z	Brunei
WAA-WZZ	United States of America
XAA-XIZ	Mexico
XJA-XOZ	Canada
XPA-XPZ	Denmark

Call Sign Series	*Allocated to*
XQA-XRZ	Chile
XSA-XSZ	China
XTA-XTZ	Burkina Faso
XUA-XUZ	Kampuchea
XVA-XVZ	Viet Nam
XWA-XWZ	Laos
XXA-XXZ	Portugal
XYA-XZZ	Burma
YAA-YAZ	Afghanistan
YBA-YHZ	Indonesia
YIA-YIZ	Iraq
YJA-YJZ	New Hebrides
YKA-YKZ	Syria
YLA-YLZ	Union of Soviet Socialist Republics
YMA-YMZ	Turkey
YNA-YNZ	Nicaragua
YOA-YRZ	Romania
YSA-YSZ	El Salvador
YTA-YUZ	Yugoslavia
YVA-YYZ	Venezuela
YZA-YZZ	Yugoslavia
Y2A-Y9Z	German Democratic Republic
ZAA-ZAZ	Albania
ZBA-ZJZ	United Kingdom of Great Britain and Northern Ireland
ZKA-ZMZ	New Zealand
ZNA-ZOZ	United Kingdom of Great Britain and Northern Ireland
ZPA-ZPZ	Paraguay
ZQA-ZQZ	United Kingdom of Great Britain and Northern Ireland
ZRA-ZUZ	South Africa
ZVA-ZZZ	Brazil
Z2A-Z2Z	Zimbabwe
2AA-2ZZ	United Kingdom of Great Britain and Northern Ireland
3AA-3AZ	Monaco
3BA-3AZ	Mauritius
3CA-3CZ	Equatorial Guinea
3DA-3DM	Swaziland
3DN-3DZ	Fiji
3EA-3FZ	Panama
3GA-3GZ	Chile
3HA-3UZ	China
3VA-3VZ	Tunisia
3WA-3WZ	Viet Nam
3XA-3XZ	Guinea
3YA-3YZ	Norway
3ZA-3ZZ	Poland
4AA-4CA	Mexico
4DA-4IZ	Philippines
4JA-4LZ	Union of Soviet Socialist Republics
4MA-4MZ	Venezuela
4NA-4OZ	Yugoslavia
4PA-4SZ	Sri Lanka
4TA-4TZ	Peru
4UA-4UZ*	United Nations Organization
4VA-4VZ	Haiti
4WA-4WZ	Yemen Arab Republic
4XA-4XZ	Israel
4YA-4YZ*	International Civil Aviation Organization
4ZA-4ZZ	Israel
5AA-5AZ	Libya
5BA-5BZ	Cyprus
5CA-5GZ	Morocco
5HA-5IZ	Tanzania
5JA-5KZ	Colombia
5LA-5MZ	Liberia
5NA-5OZ	Nigeria
5PA-5QZ	Denmark
5RA-5SZ	Madagascar
5TA-5TZ	Mauritania
5UA-5UZ	Niger
5VA-5VZ	Togo
5WA-5WZ	Western Samoa
5XA-5XZ	Uganda
5YA-5ZZ	Kenya
6AA-6BZ	Egypt
6CA-6CZ	Syria
6DA-6JZ	Mexico
6KA-6NZ	Republic of Korea
6OA-6OZ	Somalia
6PA-6SZ	Pakistan
6TA-6UZ	Sudan
6VA-6WZ	Senegal
6XA-6XZ	Madagascar
6YA-6YZ	Jamaica
6ZA-6ZZ	Liberia
7AA-7IZ	Indonesia
7JA-7NZ	Japan
7OA-7OZ	Yemen
7PA-7PZ	Lesotho
7QA-7QZ	Malawi
7RA-7RZ	Algeria
7SA-7SZ	Sweden
7TA-7YZ	Algeria
7ZA-7ZZ	Saudi Arabia
8AA-8IZ	Indonesia
8JA-8NZ	Japan
8OA-8OZ	Botswana
8PA-8PZ	Barbados
8QA-8QZ	Maldives
8RA-8RZ	Guyana
8SA-8SZ	Sweden
8TA-8YZ	India
8ZA-8ZZ	Saudi Arabia
9BA-9DZ	Iran
9EA-9FZ	Ethiopia
9GA-9GZ	Ghana
9HA-9HZ	Malta
9IA-9JZ	Zambia
9KA-9KZ	Kuwait
9LA-9LZ	Sierra Leone
9MA-9MZ	Malaysia
9NA-9NZ	Nepal
9OA-9TZ	Zaire
9UA-9UZ	Burundi
9VA-9VZ	Singapore
9WA-9WZ	Malaysia
9XA-9XZ	Rwanda
9YA-9ZZ	Trinidad and Tobago

*The series of call signs with an asterisk indicate the international organization to which they are allocated.

ARRL RECOMMENDED PRECEDENCES

Please observe the following ARRL provisions for PRECEDENCES in connection with written message traffic. These provisions are designed to increase the efficiency of our service both in normal times and in emergency.

Precedences

EMERGENCY Any message having life and death urgency to any person or group of persons, which is transmitted by Amateur Radio in the absence of regular commercial facilities. This includes official messages of welfare agencies during emergencies requesting supplies, materials or instruction vital to relief of stricken populace in emergency areas. During normal times, it will be **very rare.** On CW/RTTY, this designation will **always** be spelled out. When in doubt, do not use it.

PRIORITY Use abbreviation *P* on CW/RTTY. This classification is for a) important messages having a specific time limit b) official messages not covered in the emergency category c) press dispatches and emergency-related traffic not of the **utmost** urgency d) notice of death or injury in a disaster area, personal or official.

WELFARE This classification, abbreviated as *W* on CW/RTTY, refers to either an inquiry as to the health and welfare of an individual in the disaster area or an advisory from the disaster area that indicates all is well. Welfare traffic is handled only after all emergency and priority traffic is cleared. The Red Cross equivalent to an incoming Welfare message is DWI (Disaster Welfare Inquiry).

ROUTINE Most traffic in normal times will bear this designation. In disaster situations, traffic labeled Routine (*R* on CW/RTTY) should be handled last, or not at all when circuits are busy with higher precedence traffic.

NOTE: The precedence always follows the message number. For an example, a message number may be 207 *R* on CW and "Two Zero Seven Routine" on phone.

ARRL NUMBERED RADIOGRAMS

The letters ARL are inserted in the preample in the check and in the text before spelled out numbers, which represent texts from this list. Note that some ARL texts include insertion of numerals. *Example:* NR 1 R W1AW ARL 5 NEWINGTON CONN JUNE 1 DONALD R SMITH AA 164 EAST SIXTH AVE AA NORTH RIVER CITY MO AA PHONE 733 3968 BT ARRL FIFTY ARL SIXTY ONE BT DIANA AR. For additional information about traffic handling, consult *The ARRL Operating Manual.*

Group One—For Possible "Relief Emergency" Use

ONE	Everyone safe here. Please don't worry.
TWO	Coming home as soon as possible.
THREE	Am in _____ hospital. Receiving excellent care and recovering fine.
FOUR	Only slight property damage here. Do not be concerned about disaster reports.
FIVE	Am moving to new location. Send no further mail or communication. Will inform you of new address when relocated.
SIX	Will contact you as soon as possible.
SEVEN	Please reply by Amateur Radio through the amateur delivering this message. This is a free public service.
EIGHT	Need additional _____ mobile or portable equipment for immediate emergency use.
NINE	Additional _____ radio operators needed to assist with emergency at this location.
TEN	Please contact _____ . Advise to standy and provide further emergency information, instructions or assistance
ELEVEN	Establish Amateur Radio emergency communications with _____ on _____ MHz.
TWELVE	Anxious to hear from you. No word in some time. Please contact me as soon as possible.
THIRTEEN	Medical emergency situation exists here.
FOURTEEN	Situation here becoming critical. Losses and damage from _____ increasing.
FIFTEEN	Please advise your conditiona and what help is needed.
SIXTEEN	Property damage very severe in this are.
SEVENTEEN	REACT communications services also available. Establish REACT communications with _____ on channel _____.
EIGHTEEN	Please contact me as soon as possible at _____.
NINETEEN	Request health and welfare report on _____. (State name, address and telephone number.)
TWENTY	Temporarily stranded. Will need some assistance. Please contact me at _____.
TWENTY ONE	Search and Rescue assistance is needed by local authoriries here. Advise availability.
TWENTY TWO	Need accurate information on the extent and type of conditions new existing at your location. Please furnish this information and reply without delay.
TWENTY THREE	Report at once the accessibility and best way to reach your location.
TWENTY FOUR	Evacuation of residents from this area urgently needed. Advise plans for help.
TWENTY FIVE	Furnish as soon as possible the weather conditions at your location.
TWENTY SIX	Help and care for evacuation of sick and injured from this location needed at once.

Emergency/priority messages originating from official sources, must carry the signature of the originating official.

Group Two—Routine messages

FORTY SIX	Greetings on your birthday and best wishes for many more to come.
FIFTY	Greetings by Amateur Radio
FIFTY ONE	Greetings by Amateur Radio. This message is sent as a free public service by ham radio operators here at _____ . Am having a wonderful time.
FIFTY TWO	Really enjoyed being with you. Looking forward to getting together again.
FIFTY THREE	Received your _____ . It's appreciated; many thanks.
FIFTY FOUR	Many thaks for your good wishes.
FIFTY FIVE	Good news is always welcome. Very delighted to hear about yours.
FIFTY SIX	Congratulations on your _____ , a most worthy and deserved achievement.
FIFTY SEVEN	Wish we could be together.
FIFTY EIGHT	Have a wonderful time. Let us know when you return.
FIFTY NINE	Congratulations on the new arrival. Hope mother and child are well.
*SIXTY	Wishing you the best of everything on _____ .
SIXTY ONE	Wishing you a very merry Christmas and a happy New Year.
*SIXTY TWO	Greetings and best wishes to you for a pleasant _____ holiday season.
SIXTY THREE	Victory or defeat, our best wishes are with you. Hope you win.
SIXTY FOUR	Arrived safely at _____ .
SIXTY FIVE	Arriving _____ on _____ . Please arrange to meet me there.
SIXTY SIX	DX QSLs are on hand for you at the _____ QSL Bureau. Send _____ self addressed envelopes.
SIXTY SEVEN	Your message number _____ undeliverable because of _____ . Please advise.
SIXTY EIGHT	Sorry to hear that you are ill. Best wishes for a speedy recovery.

ARL NUMBERS SHOULD BE SPELLED OUT AT ALL TIMES

*Can be used for all holidays.

License Renewal Information

1) To renew your license, complete FCC Form 610 (available from ARRL HQ; SASE, please) being careful not to miss any applicable boxes or blanks that apply. Type or print neatly in pen. Only June 1984 and later editions of FCC Form 610 may be used.

2) Remember to attach a photocopy (or the original) of your license to the Form 610.

3) Mail your application to FCC, PO Box 1020, Gettysburg, PA 17326. There is no fee for renewing an amateur license.

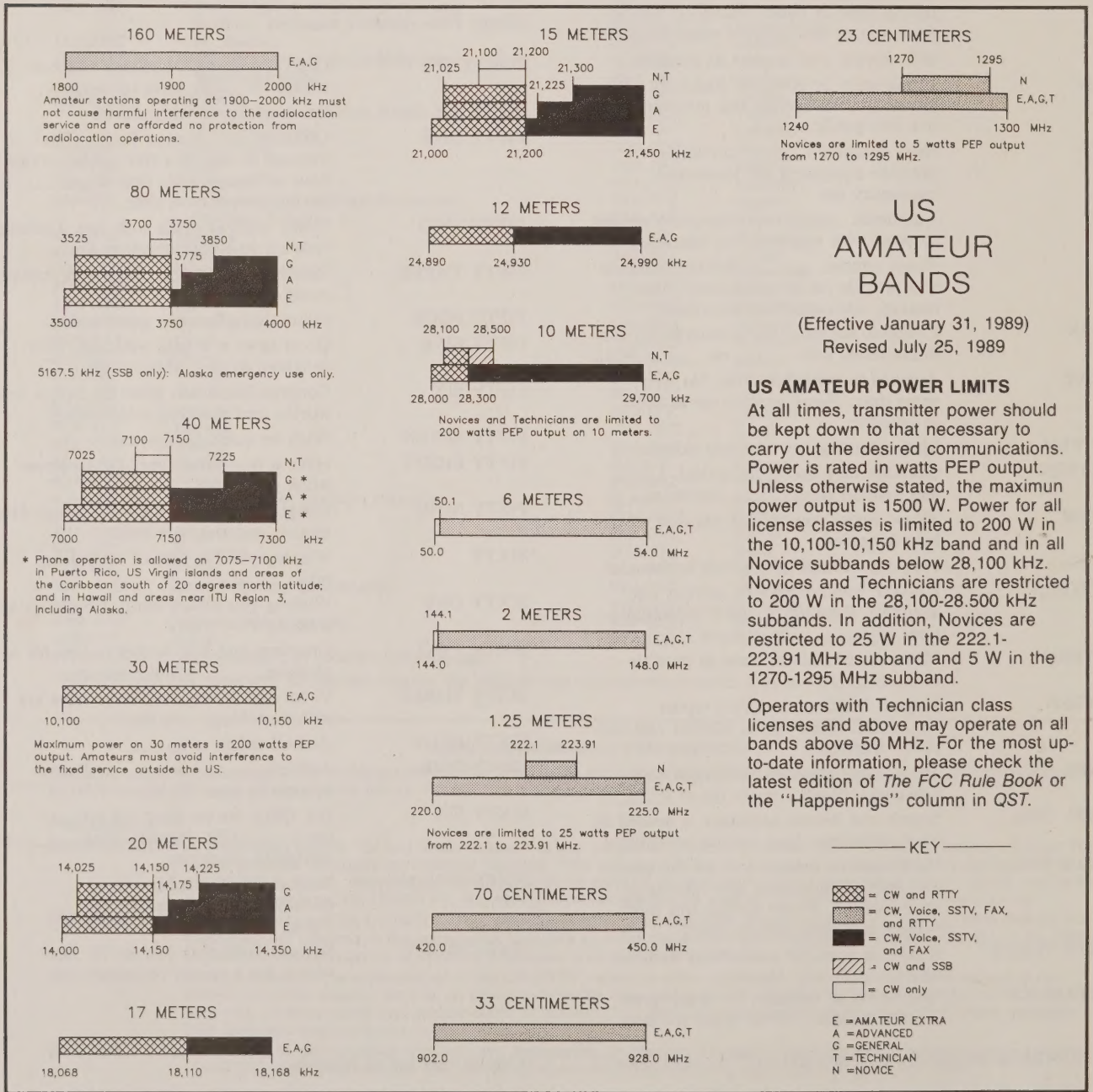
4) Application to renew should be made approximately 90 days before expiration; however, renewal can be applied for at any time during the term of the license.

5) It's a good idea to retain a copy of your application as proof of filing before the expiration date of your license. If you filed *before* the license expiration date, you may continue to operate beyond the expiration date and until the new license arrives. Otherwise you may not operate until you receive a new license.

6) If your license has already expired, it is still possible to renew. The FCC allows a 5-year grace period, after the expiration date, for licenses with a 5-year term. (Note that the new ten-year term licenses, which have been issued since January 1984, have only a 2-year grace period before *both* the license and the call sign expire.) After two years of the grace period have elapsed, you will lose your call sign and be assigned a new one.

7) If you are simply modifying your license (change of address, for example), you must also fill out Form 610. Incidentally, your license will also be automatically renewed at this time.

8) If you have any questions or problems, drop a note to the Regulatory Information Department, ARRL HQ.



INTERNATIONAL Q SIGNALS

A Q signal followed by a ? asks a question. A Q signal without the ? answers affirmatively, unless otherwise indicated.

QRA	What is the name of your station?
QRG	What's my exact frequency?
QRH	Does my frequency vary?
QRI	How is the tone of my transmission? (1-3)
QRK	What is my signal intelligibility? (1-5)
QRL	Are you busy?
QRM	Is my transmission being interfered with?
QRN	Are you troubled by static?
QRO	Shall I increase transmitter power?
QRP	Shall I decrease transmitter power?
QRQ	Shall I send faster?
QRS	Shall I send slower?
QRT	Shall I stop sending?
QRU	Have you anything for me? (Answer in negative).
QRV	Are you ready?
QRW	Shall I tell.....you're calling him?
QRX	When will you call again?
QRZ	Who is calling me?
QSA	What is my signal strength? (1-5)
QSB	Are my signals fading?
QSD	Is my keying defective?
QSG	Shall I send.....messages at a time?
QSK	Can you work breakin?
QSL	Can you acknowledge receipt?
QSM	Shall I repeat the last message sent?
QSO	Can you communicate with.....direct?
QSP	Will you relay to.....?
QSV	Shall I send a series of V's?
QSW	Will you transmit on.....?
QSX	Will you listen for.....on.....?
QSY	Shall I change frequency?
QSZ	Shall I send each word/group more than once? (Answer, send twice or.....)
QTA	Shall I cancel number.....?
QTB	Do you agree with my word count? (Answer negative)
QTC	How many messages have you to send?
QTH	What is your location?
QTR	What is your time?
QTV	Shall I stand guard for you.....?
QTX	Will you keep your station open for further communication with me?
QUA	Have you news of.....?

ITU PHONETIC ALPHABET

Word list adopted by the International Telecommunication Union

A	ALFA	**N**	NOVEMBER
B	BRAVO	**O**	OSCAR
C	CHARLIE	**P**	PAPA
D	DELTA	**Q**	QUEBEC
E	ECHO	**R**	ROMEO
F	FOXTROT	**S**	SIERRA
G	GOLF	**T**	TANGO
H	HOTEL	**U**	UNIFORM
I	INDIA	**V**	VICTOR
J	JULIET	**W**	WHISKEY
K	KILO	**X**	X-RAY
L	LIMA	**Y**	YANKEE
M	MIKE	**Z**	ZULU

IN AN EMERGENCY

Monitor your local emergency frequency.
Make contact with your local EC.
Take immediate steps to follow any prearranged plans.
Stay off the air unless or until you are *sure* you can be of assistance.
In widespread emergencies, monitor W1AW for latest bulletins a.id news.

TIME CONVERSION CHART

UTC	*EDT/AST*	*CDT/EST*	*MDT/CST*	*PDT/MST*	*PST*
0000*	2000	1900	1800	1700	1600
0100	2100	2000	1900	1800	1700
0200	2200	2100	2000	1900	1800
0300	2300	2200	2100	2000	1900
0400	0000*	2300	2200	2100	2000
0500	0100	0000*	2300	2200	2100
0600	0200	0100	0000*	2300	2200
0700	0300	0200	0100	0000*	2300
0800	0400	0300	0200	0100	0000*
0900	0500	0400	0300	0200	0100
1000	0600	0500	0400	0300	0200
1100	0700	0600	0500	0400	0300
1200	0800	0700	0600	0500	0400
1300	0900	0800	0700	0600	0500
1400	1000	0900	0800	0700	0600
1500	1100	1000	0900	0800	0700
1600	1200	1100	1000	0900	0800
1700	1300	1200	1100	1000	0900
1800	1400	1300	1200	1100	1000
1900	1500	1400	1300	1200	1100
2000	1600	1500	1400	1300	1200
2100	1700	1600	1500	1400	1300
2200	1800	1700	1600	1500	1400
2300	1900	1800	1700	1600	1500
2400	2000	1900	1800	1700	1600

Coordinated Universal Time (UTC) is the time at the zero or reference meridian. Time changes one hour with each change of 15° in longitude. The five time zones in the U.S. proper and Canada roughly follow these lines.

*0000 and 2400 are interchangeable. 2400 is associated with the date of the day ending. 0000 with the day just starting.

The R-S-T SYSTEM

READABILITY

1—Unreadable.
2—Barely readable, occasional words distinguishable.
3—Readable with considerable difficulty.
4—Readable with practically no difficulty.
5—Perfectly readable.

SIGNAL STRENGTH

1—Faint signals, barely perceptible.
2—Very weak signals.
3—Weak signals.
4—Fair signals.
5—Fairly good signals.
6—Good signals.
7—Moderately strong signals.
8—Strong signals.
9—Extremely strong signals.

TONE

1—Sixty cycle ac or less, very rough and broad.
2—Very rough ac, very harsh and broad.
3—Rough ac tone, rectified but not filtered.
4—Rough note, some trace of filtering.
5—Filtered rectified ac, but strongly ripple-modulated.
6—Filtered tone, definite trace of ripple modulation.
7—Near pure tone, trace of ripple modulation.
8—Near perfect tone, slight trace of modulation.
9—Perfect tone, no trace of ripple, or modulation of any kind.

If the signal has the characteristic steadiness of crystal control, add the letter X to the RST report. If there is a chirp, the letter C may be added to so indicate. Similarly for a click, add K. The above reporting system is used on both CW and voice, leaving out the "tone" report on voice.

A
R
R
L